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cggcaggaga ggaaagactg ttggtgtctc caagaagcga taagctgctt cacaagatt 180
cctcataget ttgtactac tgtgttggtc catttccaga atcttaaggg agtgttctta 240
tttagatgat taccttggat gatgttttgc cctagataat gttttggttc tggaaccttt 300
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aaagcggccg ct 372

<210> 4233

<211> 326

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-053-Q1-E1-H12

<400> 4233

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gattacgatg atgattatta agattatgaa actgggtgatg ctgatgatga tcattccaat 240
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<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-A3

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gaatcgagtt attgccgtcg tatatttctc gagcttggtc cgtcgcacgc tcgcatgcc 360
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aaggaacagc ggcagcagaa ggtgctgcgg caagggcacg ggagcacaga atcctgggtg 240
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atcatatgtg gttgaccaat agagcagaca ttcaaacgga agacatcctg ttgtgatatg 360
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<210> 4237
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 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-A7

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 cacgatgaca tatggatctc aggaacggta atttggcgtc aggggatctc ggacgacggc 240
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 <212> DNA
 <213> Triticum aestivum

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 tcaatgggct catcaggag gcgcacaggc ttcacacgt tcctcgatcat gtagtaatac 240
 gtcgtcttcg tcgtcttcac acagcgacat catcgacgcc atcctcacca tggacaacaa 300
 catgggggtc ttcgcatatg cagggcctgt acagatcttt gtgtcagatc acttgattcc 360
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<210> 4239
 <211> 423
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 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-A9

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 cttgggtccat taaggagggtg atcgcacgtc gaactaggca accggacgat atagctgtaa 360
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<223> Clone ID: LIB103-054-Q1-E1-B1

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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B11

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ctaagaactc ggttctggaa cttttggaac tgtgtatcat gggaaatgga ggggctctga 180
tgttgcaata acatgaatca atgacagatg ttttgctggg aagccatctg agcaagagaa 240
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<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 4243

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<211> 213
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<223> Clone ID: LIB103-054-Q1-E1-B4

<400> 4244

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<210> 4245
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B6

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gaggcctacc acgtgtactg catgacgccc aagcgcacct gcgtcccaa gggccactgg 240
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<212> DNA
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<223> Clone ID: LIB103-054-Q1-E1-B9

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<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-C1

<400> 4247

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<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-C2

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 caacagccat ttgtagaatg ctcttttgct tcacttatat ttgttagagc gtcggcatat 240
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 aatttgtcat tcacatgggt agtcatataa tccatagataa acttgtagat cgctgaatat 360
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 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-054-Q1-E1-C3
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 taaacgtcat gtaacaaaatt tgaaacatga ggtgttattt gattgtcctc cttatgagtg 180
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 aatgttgagt ccatggatta tacgcactct cacccttcca tcattgctag cctcttcggt 360
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 <211> 96
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 caatttcctt ttggaagggc aaattgattg atggcc 96

[illegible][illegible][illegible]

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<211> 450

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<211> 104

<212> DNA

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<211> 427

<212> DNA

<213> Triticum aestivum

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<223> Clone ID: LIB103-054-Q1-E1-E2

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<223> Clone ID: LIB103-054-Q1-E1-E3

<400> 4263

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ttcttgtgct tggtgagctt gtgtgtgagg tggctctctt caagctccga tcagtcctct 180
cactcccttt ttctctctcc cttttcactg tgggtggttag tcctatttat agaggccctg 240
gtcctcttcc gaaatatcga gcgggaaggg agccaacaat ggcggggctaa tttgaagggg 300
ggtagctagt acaagctatc ctgacaaaag tagtattcgc gtgcacaaag ttctggtggt 360
gatgttgttt tgggctccac gatgacctcc gtcttgcaat cctcggtctt ggtcttgttg 420
caccgaaatg gcaacctttg 440
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<210> 4264
 <211> 445
 <212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-F2

<400> 4266

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ggataaggaa atgaccgacc ccaaataagg ggcaatccac aaagcccaac aacccccaaaa 120

aacctccgaa ttaggtgggt ccggcaaccg gaattcaccc aaaatccaaa gccataaaac 180

acaaccaacc aacgcaaaaac aacaaggcct cctccctcct ttccctcctc cgaaatcgca 240

cgactcaacc gctgccatgg acgctggaaa aaacctcaga tctgttctga cctctctgta 300

gttcttttgc tcacatttct tccttccaaa gtccttctcc cagtcggcaa acatccacta 360

cagaaaaact ggaaaagtgg atgagttctc atttntcaca gatctgtcaa gaaggacaaa 420

acggagaaaa gaaanaaagg gagagaagaa cctgc 455

<210> 4267

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-F4

<400> 4267

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tttgcggtt cacaatgttac tgtctgtact tgtgagaatg atgtttgacg aaagtaacaa 180

cttgaacata acatagccca tatgaccaag ctgttccaat tcgggagctc actctgtatt 240

caattacttt ctattactaa acatatactt gtatctccaa ccaatccgag ctgggcttgg 300

tgggcttaac ctatgcatct gcattggatt tataaaaagta gtaaattgtac atttagagaa 360

cttgacagac taaactcata taacttcaca catggataac gcaactattat aagtactcaa 420

aagatgacca ttc 433

<210> 4268

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-F8

<400> 4268

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tgatattctc ccaaaaaatc acgatgccga aggtttcatt ccgtttggac tccgtttgat 180
attcctcttc ttcgaaatac tgaacaggc aataaaacaa caatatgggc tgggcctccg 240
gttaataggt tagtcccaa agtaataata aagtgtataa taaagcccg aatcattcaa 300
aacagataat aaaatagcat gaatgcttca taaattatag atacgttaga gacatatcag 360
caactccttc ccctattccc tggagatgca acgcaggga acaccgttcg accgtttccg 420
gtagagctct ccattcttga tgca 444

<210> 4269

<211> 262

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-G1

<400> 4269

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gcgtcatcct gtagttgata gtaaagaggc agccagtgc tcccttatta ttaaaaaaga 120
gggattcgca ngggcgctac ttatttacta agtggacttg ggtcgcaacc tgcattggcg 180
cacaccccat gatcacgng tggaatatgg tcgccccacc tgttctcatg cctctgactc 240
gctcgccaca tgtcncgcat gc 262

<210> 4270

<211> 356

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-G2

<400> 4270

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ttaaaacaag aatttgagaa aaaatgaatc ctcaatttta aaaaccggcc ccaaaaaaaaa 120
 aaggaaaacc caaaaaaagg aaggccggaa tatttatata ttaattaaga aaaaaaacag 180
 gcaagttagt tagttggtgc cacagaatgc aatgcatgct cncatcatca tcatcatcat 240
 catcatcata atgtgatcag agctgagacc tgatcgatgg caaatattag tacttagatt 300
 agtactcctg cttacacaag tccagtaatg agatgcctcg gttgcttcgc ttctgc 356

<210> 4271
 <211> 113
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-G3

<400> 4271

acatcatcat cgcccctgcc atctaccacc accgctatcc gccacgctcc gaatccgtat 60
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<210> 4272
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-054-Q1-E1-G4

<400> 4272

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 aaaaaaaaaa acggaggatt tcaaccttga taaggatgac tacatgttgc tcaaggataa 180
 taacattacc ggcactcctc gtccgaagcc tctgaaaac aagtttaagc ggttgaagaa 240
 ggcaagacgg gaatctgaaa tggatgggcy ttctggcttc tctgatcatg acggagcaag 300
 aaaaagccgg actgctgagg agacagttcg tagctccttg tttggtaatg aagaaccgtt 360
 tgaggaagat tttgtcgagg aagatcagca ngtagatgaa gatgaagttg gtgaagatga 420
 tatggatgat gaaa 434

<210> 4273

<211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-G5

 <400> 4273

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agaagccgtt acatttatga tcttttctat aaaaggaagg agatatcaaa ggagctgtat 120
gagttctgcc tggaccaggg ttatgcagac cgtaatctga ttgcaaagtg gaaaaagccg 180
ggttacgagc gcctctgctg cctccgctgc atccagacc gagaccacaa ctttgcgacg 240
acgtgcgtgt gccgggtccc caagcatctg agggaggagc aggtgatcga atgcgtccac 300
tgtggctgca agggatgtgc cggcggcgat taactgacta gttatgtgta ttcatcatgt 360
gtcgccgaat ccatggtggc tctaagccaa gactctaga tgtttcttaa gcgtgttctc 420
tggtaaagaa cagatcgtcc tgtaatgt 448
  
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<210> 4274
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-G6

 <400> 4274

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agatctggga gatggccgag agcatataca gcgacgacaa cagcaacaac gccaacagcg 180
cctcgtgcct gtccacataa gaagacgccg ccaaccaact tcttcctga tgtgtggacg 240
atggccgatg gggacatggc tcgttcgtag tctttgggtg gacgagtcgc gtgcggttta 300
cttgtagtgc ctcgtgcggt ttcgtcgctt aattagcagc tgctgctatc gtttggcgcc 360
tagatcctgt agacatggat ggatggagaa gtgactctgg aatatttgta cgtcctt 417
  
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<210> 4275
 <211> 433
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-G8

<400> 4275

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 ttcgccgacg cggcaacgga ggaaggcggc ggtccaaac tctccgcgt cctctacgac 120
 gtgtcgcagc aggtccagga cagcctccag agcatgctga agatgacggg cgagatcgag 180
 cagtgcagtg acgagatcga ggtggagatc gagcaggcca aggagggcgt ggctgacaag 240
 tacaggggtgc tcgaggagga gaaggaaagg ttccagaagg tggccctcgc ggcgctcaac 300
 atcctgagcg gtggcatctg aagcctgcac caccttaata ccaacaaaga caatcctgat 360
 aactgccccg ctctgtagat caccgttcat gtgcaagcct agcaatgaac cgccagttgt 420
 actcctccat atg 433

<210> 4276

<211> 131

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H10

<400> 4276

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 tatggatatc ttgtacttgt gactggcctt ctacggagca tccactccgg tttagatata 120
 tacaggatac c 131

<210> 4277

<211> 357

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H12

<400> 4277

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 aaatagacac tgcaattatc gtataagtac atcattgctg ctgtcagcag tgctctctaa 120
 atagacactg caattatcat gtacatcatt gctgtgcaa tgaaccatta agaattattt 180
 aaaatctagc ctaccatctg cgttgtcgtc aacatagggt tgaggcggag ttacaaaatc 240

tgtatgagaa accgagggat tgtccgagtc agcgacatct ttgttatctt cagagctgtc 300
agaagcatct gagatggcgt cacctgattc tgaatgtgtt ctgtccacat atgcttc 357

<210> 4278
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H2

<400> 4278

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acattggctc cggcgggatg cagaggagg atgtcacgct ccggacatac gcgccggtgg 120
ttgttacttc tggcggagtc tagactaccc ctacagatga ctactagtct tttctgtgca 180
ctttgtctcc actcgtgcgc aactgtaagc aacttcccat tcggtcacac atcttgaaac 240
tactctaagc tgatcaagct taactttgga gttctatccg aatgggctct cggattatac 300
ggaattcctt attgatat 318

<210> 4279
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H3

<400> 4279

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ttccaaaaac caactgaact gttttccggt ggggtcataa ggagcctatc aatctcaact 120
agaattatcc caagtttcac ttcacatcgt gatgttggtt tacctttttt cttgtcattg 180
tcctgctata acggatagcg ctccctgttg gcgccgctgc cggcgggggtg cccttggtgt 240
ggagggtgta tgctcccagc gccgggggtgc ccctgcttgt acctagatgg ttactctttc 300
cgtccacatc tgtcaccggc taacattgtg ataatatcag tctgggtaat gttagaaaaa 360
aaaaaaaaa aaaaaaaaaa aaaagcggcc gctc 394

<210> 4280
<211> 389
<212> DNA

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cctgctactg atgagcagat gtggctcagt gagccacgg ggaaagagta agtgccactt 120
tataataatt gcattagttt gcttgtcaca tgctcattct ggttggttaat tattgtgcgt 180
gtcagatgct aatagttcat tcttttgcag caactggata tattctgaag ggggccgtat 240
tcccaacggc ctcatcattg tcttgctgat gtttactgg cgggggttgt actgtccgga 300
tccattcaag caccgatgc atcaggtctt ggacacgagc tgggagcact gcgaagcagg 360
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gcttcat 427

<210> 4283
<211> 418
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-054-Q1-E1-H7
<400> 4283

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ttttttatgt tttaattagt gtttttgcca agtaaagcct ttaggatctt cttgggtgat 180
tgttgtttga tcttgctgaa aaaaatagaa agtatgcgct cacgagaata aattttgttt 240
ttttaccaga gagcgataaa ctaccaattc caactgaagt ggatcaatat acaaattatt 300
taagtcctcc taaattttta gaaatttttg agttacacaa gtattccaaa cctgcagatt 360
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<210> 4284
<211> 124
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-054-Q1-E1-H8
<400> 4284

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tggtcggact gggctgatgc atggggatgg actgcgccgg caacggccac catgccagat 120

tggtt

124

<210> 4285
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-A12

<400> 4285

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agcaagagaa caaaattctg ataacaattt tttaaaaaaa aatctacaac tagcaatact 120
gctacaaatc tggaccagtt tagacctcgg accacaagtt acggctaagt gctacagtta 180
tcttcggaac cttgtctgtt caaggaagtg gcggttgga gccttataga agcatcaccg 240
cagatggccg tcaagacatc aaactctcct cacgttgtct ccatggataa ccaccgcgcc 300
ttcagtcatc aggggtgcaa gagcaccgcg gagttcgtgc atatgaattt ccattgagct 360
ctgcttctc agttctcca gcaactcaat catgcgcac gaggggcctc caagctgcat 420
tttccccg 428

<210> 4286
<211> 149
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-A2

<400> 4286

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tcgtgggcac acatcacatc ttgcgaaggc ttggaacagg atgctcaata atcatccaaa 120
cgacagagaa ccagcagtga caactttgt 149

<210> 4287
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-A4

<400> 4287

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tatatgcgtc ttttacttgt ttacatcatc atattatccc tttggagtgc gatatatggt 120
cagttgccaa tttttcatat cctaagtcgc ttaaggtttc atgataaaag gcatgagaga 180
gcacatctgt aataggtgca tgcccaatat actgttttaa attcactata ttgtttgtgt 240
tactttgtgt ccacagccta ttaacaatg gggctcttac ttaaaagcta ctgtgatgtc 300
tacctatctc ttgtctgata caatcctgct ttaacaagt gccgagattt tgcacgtca 360
cca 363

<210> 4288
<211> 357
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-055-Q1-E1-A5
<400> 4288

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ctgggcagat tcgatgaaca catagaacta taaactggat ccaactgcaa tcagtgtcca 120
gaacacgcaa agccgtacag attcacagt caggggaaac acggagttac gatgacacaa 180
acggagataa cgggtggcagc agggggactc aaacgttcac cagccacagt tagtacggtt 240
acttcatggg gaacacgaag gacacacaac atggattgcc tttctgatag gcaatgcagg 300
gtttgtctc ctcttcagt tcccgcgagg tagcacctcg tcgccgcagg ctttact 357

<210> 4289
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-055-Q1-E1-A6
<400> 4289

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aacaaataga actacaaact ggatccaact gcaatcagt tccagaacac gcaaagccgt 120
acagattcac acagcagggg aagcacggag tttcgatgac acaaattggag ataaggggtg 180
cagcagggg actcaaactc tcagcagcta cagctagtac ggtttcttca tggggaaaac 240

gaaggaaaca agacctgcat tgcctttcta atatgcatg cacggtttgg tttcctcctt 300
 caattcccgc ggggtactat accgttaccg caggctttac tcacttggcc atcatgacct 360
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<210> 4290
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-A7
 <400> 4290

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 attacactac accggcagct tacacaccgg agcggactca tgcacacaat acaacagcac 120
 atcctcgacg atatccgcc tctctctcgc attcgagaat ggcgcgcgct cgccattgcc 180
 gtccccaat cgggatttta tctcgctatt gctacggtac ggccgcgcgt acccattagg 240
 tcgacgtcgc cgcgatcggg ctggcgacca cgtggtggtc gctggaccag actagccgcc 300
 cgaaccggtt ggtgcccgc ggcacccgc ccgcctgaa acccaccgtg tagcgcaccc 360
 tctcgctgga c 371

<210> 4291
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-A8
 <400> 4291

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 tttttttttt ttttcagaaa agccggaaga caatagagtt tttgaacatt accccgaaca 120
 atacacataa aaggatcgag tctccgttac acgaaatcct ggaggacgaa tgcagctatg 180
 cacgcaggcc catggatctt ttattttatg agctaaaatg gcttcgagcc gacccaaggt 240
 taccatggag actctacttg ttctgcagca aggacaccgc tgccttatca gtgaaccagg 300
 tgaattctcc atcttgtagc acagccatct caacaggcag caggtctgac gaggtttgct 360
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cg

422

<210> 4292
<211> 121
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B11

<400> 4292

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atctataact agcaatactg ctacaaatct ggagcagttt agaggtcgga ccacatgtta 120
c 121

<210> 4293
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B4

<400> 4293

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cagtagatcc aaacgggaaa tcgctgctac acccgcgcgg attcacaacg tcaccagcgg 120
acgccacacg ctgaggaact ccagctattg ggca 154

<210> 4294
<211> 352
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B5

<400> 4294

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aacaccgtgt cgcaccagca agcggagcgc ccatacaagg tgaataacgt atggctcgcca 120
gatgagggtt tcagagccta agaccaggac cttttctgag cctagaaaca tccagaggta 180
catgctcgaa atgtcatgag cagcatgtgt gttttgttac attgtaaaat caagcctctg 240
ggagcttgaa gatggctcgg aaaggtttcc agaactccac ctcttcagca tctccagagc 300

agccttcggt tgaatccatag gtacatgtg accaacatcg tgaaccttca ag

352

<210> 4295

<211> 217

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B9

<400> 4295

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gcgaggctat agcgagcgag agagcgatag cgcgggtgcgc gggcgtggct cgctcagcgc 120
gcgaatgcgc tcgtcgacg gatgcagggg agagaagggtt cgcttggtcg gttgatcgat 180
aaatcgaagg aaatccgat gagcgatgaa tgcgcgcg 217

<210> 4296

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-C12

<400> 4296

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acaggcatca tagatgcttg gggtaagtac agactgcagg ctaaaccatcc caatccaaca 120
acggtcgagt gccgatgaag cgaagaaact acaactaaa ctgcctcact ccagggcagg 180
gacgacactt gcaaggaaac tactcagaga agacggcact aatctactgc atctagaaag 240
tccttcgaga aagcccgtt agggcgacaa cgacgaagat tttttccct gactgcaaac 300
acttgacag agtttcatcc gtcatacatc actcgtcacc ctctcgtcc tcgtcgttca 360
cctcggactt ggacttgcg gaatcaccag acgccgtggg gtctcctcg 409

<210> 4297

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-C3

<400> 4297

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 tgcattccaat ggatgaacaa cgttgcttgc tgtttacatc atcaagggtt gccaaaggcct 120
 cgcttggttat ccagatgtca caactaccgc gagtcaagac gctcttataa cgcaaacacc 180
 ttactacat atgaggcctt ctgcacctga ttataaccac tatatataca ttatcatgtg 240
 ctgcacaggt tgcattctcc attcctgctc cactccttga cggcccagca aagcaatgga 300
 ccaaaacatt gcctccagag cttatagctt catctatgaa accaaagcat tcatcagaat 360
 gctttaacag atcagtgtct ggg 383

<210> 4298
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-C5
 <400> 4298

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 attgcagtga atattattca acatgtaaac tgcattccaa tggatgaaca acgttgcttg 120
 ctgtttacat cataaagttt gccaaaggcct cgcttggttat ccagatgtca taatacgcgg 180
 tcaagacgct cttacaacgc atacgccttc actacatatg aggccttctg cacctattat 240
 aacactagta taattatcag tgctgcacag gttgcattct ccattcctgc tccactcctt 300
 gaccgcccag caaagcaatg gacaaaaaca ttgcctccag agcttatagc ttcatctatg 360
 aaaccaaagc attcatcaga atgctttaac agatcagtgt ctgggatatc aagtact 417

<210> 4299
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-C8
 <400> 4299

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 ggctgcaaat tacacgcgcc attaatgcgc agcttgacc agcgggtttc aggtcaaggc 180

caaaactgagg aaaagatggc gtccggtccc cgacagcgac gcaccccgcc gccagaaaac 240
 aaatgcagta ctgccccgagc tcgaaggagg tttgaacggg gcggttttat ttcgacttcc 300
 tgcttggttg cttgctttac tgaacgaagc acgaacccgg gccgaccggc ggcctccgag 360
 cgtagtagtt cgtgacagga gccgcggcga cccacgggtg gttcagc 407

<210> 4300
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-D1
 <400> 4300

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 ggcagctaaa gctgaaagaa aacaagtgtc cacaagtaca catcatagga gaggtcacgg 120
 aggggttatg cttactaggc agacggctag catacgcaat tgaggacaaa ggattactgg 180
 aaagctttcc cgaattggcg catcacttta gagcatcgcc gagggccgca agcattccca 240
 ggctctgctg caactcagcc aacctcactt tcaaggcctg gacgctccgt cgggtgtacat 300
 ccgtgtaggc atcgttgacc aaacccgaaa gtctttcagc acataacacc atcgagctt 360
 ctgtgagttc aagactcaca ggttgctggg atccaaaaag 400

<210> 4301
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-D12
 <400> 4301

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 aacatctaaa tgcttgatag gttggcggat aaagcaa^{*}atc ggggcaagca attacgcctt 180
 ctgggtgtag acataggtga ggccgcactt gccgcagtag tggcggtcga agtggttggc 240
 catgaagacg cccgcgccgc actctgtgtt ggggcactcc ttgcggaggc gggtcacctt 300
 gccagtggcg tcgtccacct tatagaactg cagcacggag agcttcacct tcttgtgctt 360

gtgcttgatc ttcttgggct tgggtgtacgt cttcttctta cgc

403

<210> 4302
 <211> 323
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-D4
 <400> 4302

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 gtggaataac atagttcttc atgtcccaca agtaacagag cgctaattta ttattacaac 180
 caccatgcct ggtcaaacta cattaaggac tgccactgtc cctgcctgtg gcatagacac 240
 agggagcgag tgaacggggg cctccaccgc aaccatggta gtgacaccga cacctactca 300
 catctacatg agcttgggtc acc 323

<210> 4303
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-D5
 <400> 4303

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 tctacaaagc ggtaaaggac tccaacactt gtgcaagctc aactgcagat atttcttgaa 180
 gtttcaacct actaccaaag aattaatgga actatgcctc gcggtatgta catcgctgca 240
 gatagaaacc ataaaaactg gggttcaacg tcagaactca tttccttctc ttccacttc 300
 ctatatttgc tcacttgaaa aagaacttcc atatcgccct gtcacacacc tcagtcaaga 360
 agtggccacc aaggacacct tcctcttcc 389

<210> 4304
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-D9

<400> 4304

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catcgcttcc cggaagaga aacaatataa acaagagcag gaaaacccaa aaggtcggtt 120
cgttcttttg atgatccctt ctaagagaaa gtagggaaaa gaagaggaag aaaccacgaa 180
taaagatgat acaagctcag aagacgtttt cttcttcaca gcacaccaac atcactgcaa 240
ggaagtgtct aagaggtaaa cactggacac tcagttaccg tcctcttctg gccagtaggt 300
gctgttagag atgaacagag gtcagatgtc ttcagaacgc tcaacctctt caccgaagaa 360
acaaacatcc cccagaggga catcgccaaa cagcaa 396

<210> 4305

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-E11

<400> 4305

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ttgatccatc ttacaacacc agaagaaaac aatcctgagg atacacaagg caaggatgta 120
caaacgtaaa cagcagtaca gcacacattg atagaccttc gaatcgaacg acaaatecta 180
gtgcttgctt gacatgcagc gccagaaaaa tagagaagat agagaaataa ttctgattat 240
tccaagttga agcaactcct gcaacatttg gtatccgaca agcaccact catcacatag 300
gctaaactag ttcgctacaa taagctcatc ttcaggattg gcattttgag gtagcatcgt 360
caattcatcg tcagctgcac tgaaatgata tttctctcca acaactcca aaaacctggt 420
aaacttcaaa ca 432

<210> 4306

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-E12

<400> 4306

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 tgctactcat ggaggacaaa aacagtgatg cacagttgta atttgagcaa cagcatcacc 120
 atatgtgagt acaagacatt aaccacaaat ggagaatcca tggtagcatc ttcacaagtt 180
 cagaagagca gaagctgcag tataacaggc tacaaggata catatcattt atcactttgc 240
 tgctccttca aacaagtgct ggatgtgggc tacaacatcc tctgggggtg atttgatgta 300
 caaatcacgc ccagtttcag gagaagactt taacttggca attaaagagg cgtaaactgg 360
 catcactgtc tctccaccg ctg 383

<210> 4307
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E2
 <400> 4307

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 aataacaagg tgcattgtga ggaaccaggt aacatgaaaa ccacctgctg cttccaattt 120
 gtttgtgcta tcaacagcca aaaatcacga ttagcagttg gcattttgat gatcatagga 180
 aaagctaaaa agcattctaa cccgatacaa caattggcat ctacatatgc taagcagcat 240
 aacaatttca ctggactaac atccccacaa actaacacca agcttgtggc aaaagctagt 300
 tacttgttac tgatccccga acaggcacta accccaaga aaataaggat ttatgccacc 360
 aaaatgttat cgccacgtgt tggaa 385

<210> 4308
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E3
 <400> 4308

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 ctgcttccaa tttgtttgtg ctatcaacag ccaagaatca agattagcag ttggcaattt 180

gattagcata ggaaaagcta aaaagcattc taaccctata catcaattgg catccaacta 240
 tgctaagcag cagaacaatt tctactggcct atcaccctca caaactaaca ccaagcttgt 300
 ggcaaaagct agttactttg tgctgatgcc cgagcaggca ataagcccca acaaaatagg 360
 gatgtacgcc accaaaatgt tatcgccact tgttggagag cttggctcca aacggattgc 420
 tccc 424

<210> 4309
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E4
 <400> 4309

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 acaaactaaa tattttctctc atatgtgtcc tcacaggatc gcaagagcaa cagaaacact 120
 gggaatcctt tttacatgca tcagacccaa aaacaaagtc tgaaagtctt aatgccatca 180
 caagattttt ctgcttaacc acctagtggg acttgggact taacatggac cataaaagag 240
 gccatccaca acgaagtctt ttaccaaaga gccatccctg gctccatgga ccacaaaagc 300
 ttggagattt tcgggaagcc acgactcaaa agcttggaga tctccagcat cccaaccttg 360
 tcctccac caaacaagct ttga 385

<210> 4310
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E6
 <400> 4310

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 agtaaggaca tcatcagtaa ctaacggttt cacattatta gcaacaaggc aactgcaatc 180
 aactggatt tacattgtac aggaagcaca gaaacctaaa tcaggatcta acgagtcaca 240
 agcaagcata caggttccta gtatatgcca gcagtagtct ctaactgtca atgccaggtc 300

cggtttgccc ctgtgtctgc agctgacctg gcagttgggg ctgcagctgc gcttgtgagc 360
 cccccctgtg attgtagaga tgtacctgag gttgggggttg gg 402

<210> 4311
 <211> 368
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E7
 <400> 4311

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 ccacgatcta attcgtcatg aaaaggctcc aggcacgcat actcgatata gagagataaa 120
 cactgctgga gctggactca tcgttccggc tttgtggtgg cctagtcttg tgctgtgaca 180
 ttctgcccct cctttgtttg tgatatgcca taattttgac gtgagtacag tttcactggc 240
 atgttgattc tggaactacg actggacatg tgggaaaaac tagtataact tggtttggga 300
 ccgcaacagg cattaagccc catccgtata cggatgttcg ctacctaaat gttctcgcca 360
 cttgttgc 368

<210> 4312
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E8
 <400> 4312

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 gcacatcttc actgcatcat gtaactagaa aggtgcaagt caccatgaat agtaagtact 120
 aaatactgat aagatggtga taactgataa taggataatg ctaaaacgaa gggttaaagt 180
 ggaatggaac tgggtgtacat aaagtttttg ataaccagtt cagggtgcaa acagaagtag 240
 tattccaagg ttgaagcagc aactgaaaga cggcactaca caacttttagc tgagaagagg 300
 ccaccatcga gcaaatgcgt acacatagga tcagagcaag tccattcatc ctgagctact 360
 caagatgctt tgcaagtga ttcgcttat gtcgatgggc tccgagaacc ttgaaattgg 420
 tcaaatgttg cccctgacgg aacatctccc a 451

<210> 4313
 <211> 281
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-E9

<400> 4313

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 aaaagcatgg atttactgaa atgggaatag tgaacaagt gaccttcacg cccaaccag 120
 acaaacgctt tccagttcat ccgacgggat ggatcaggct gggaaatgcc caatacagtg 180
 tcaccatgga ggggtttcatc tgagcggatg acgggagagc tatcccagca caggtcgacg 240
 gattgcccac ccaaccgtag tatatgcacg acggggggat g 281

<210> 4314
 <211> 295
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F1

<400> 4314

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 ctcaggccta ccatctacat actccagcag atccaatcca ccggagatta gtatttacag 180
 ctttgtgagc gatttagaca ttctctagt gaaccgcaag gagtgcaact gatggaaacc 240
 tgacaccaga aatcaaagaa ctctcagttg agttagaaag gccgaccaga agtcc 295

<210> 4315
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F10

<400> 4315

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ctaggcccat aacatacact ccatgcaacg ccatcaagtg gccaaataca ccagttatca 180
taattaacaa ccagcatgat ctgacttcaa acttcatgcc gtacgaagggt gtggagaaac 240
caatatgaca ccatcacctc ggacaaaaag aaaggggata gtgcgtttcg tggcgcgac 300
aattttcttca tatgtttcat catctatctc aacagttgtc acgacctctc aacatctcca 360
agtatcatgt ttaaagtgtg atcatacgca tggagcttgc cgcgc 405

<210> 4316
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F12

<400> 4316

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agaattagga gataagttac tccacacagt ctggttcaga agatcgccgc caggcataac 180
atcttctcat gcctaccatc tacatactcc agaaaatcca atctactgga gattactatt 240
tacagctttg tgagcgattt agacattcct ctagtgaaac gcaaggaatg caactgatgg 300
aaagctgaca ccagaaatca aagaactctc agttgagtta gaaaggccgc gcacaagtcc 360
agaaagagga gctgtggccc actgactctt tgcaaatcga ggaggtatct ctccgtccct 420
ggttt 425

<210> 4317
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F2

<400> 4317

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atccgtgtgt gacaatactt tcaaatttta gtacacgaga tatgacacaa atcatgtggg 120
atgcacacga tgggtagccc atgtaaataa aatgacgatt ggatttaact gcattgcagt 180
tcataagatc ctgttcaatg gctcccggtg tgatgaactt ctcaatggca tggaccgctt 240

cgaaggcgac cgggatggag aaagttatgg ggccaaccaa taggtcgaga gatttggcga 300
cgacctcatc t 311

<210> 4318
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F3

<400> 4318

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atcttgaacg ataaacaaag aagtgttttt ttctctgtct tcatagatag atgctactca 120
tcattccatg cacaggtagc ctctgtagtc gtcgtcggtc gtaatgggtca cttcacgtat 180
taattggcgc catatcggtc gtaagggcgg aagccgtggg cgagcgcggc gcgccaggac 240
ttgtctatcc cgggtgaacct ggcgacgac tcgtgcgcgt cccagcgt 288

<210> 4319
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F4

<400> 4319

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gaagataggc agtagtgttt tctgttcttt ttttcgatgt cccagtttac agactgaagc 120
catacatatg gcacaacgac tggggcacac tattacagtc aacgaacca ctctaggccg 180
gacaccttgc tattgggctt aagcttcctt tttaatcttg gctgtagcag cacaccatct 240
tcgcttccag tctctggcgc aggttcactt gtcttggcat ccttgtgtgt gctaacagag 300
tccgataatg tgatcttgat tccaacaag acaacaatag aaatgcttaa ttagaaacgg 360
acaatacatt atcataacca gcgtccaaaa cttggatgca aca 403

<210> 4320
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F5

<400> 4320

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cataaagttt gccaaaggcct cgcttggtat ccagatgtca taatacgcgg tcaagacgct 180
cttacaacgc atacgccttc actacatatg aggccttctg cacctattat aacactagta 240
taattatcag tgctgcacag gttgcattct ccattcctgc tccactcctt gaccgcccag 300
caaagcaatg gaccaaaca ttgcctccag agcttagagc ttcatctatg aaaccagagc 360
attcatcaaa atgctttaac agatcactgt 390

<210> 4321

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F6

<400> 4321

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agcctaagaa atacagtaca aaagagtcac gcctatcata catcgaatgt tctcaatata 180
gacgaagctg ctggccagcc tacaacaatt tcagagttta acgtgactac tgggaagggc 240
aaaatcatct gcgcgatgaa acccagctgc gcccaccagc actggctgta gtcttcgggg 300
gaggaaacat gcttatgtcg gttggggcag cgggttggtc ttcaaccaca aggaccgcc 360
tagcatggct ctacatgaa cagccatgta tgaagcattc aacttgtcaa catca 415

<210> 4322

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F8

<400> 4322

ccccacgagt attttttttt gtcttttttt tttttttggg gttcatatct tttcgtaatt 60

gacatacaca accattatat tggtgaaaaa tacatgcagc tcctgtcctc aagactcggg 120
cagaggcgca gagcacatcc ttctaattgg gtatacatat gctttccctg tctatcgtgg 180
ccatggactt tgcaatacca tagataccat acgaaaacac gaaacgggag aagcaaggaa 240
acgttacaaa tcgtacatgt ggatacaaca ctaaaacaag cgttccacac agctagcacg 300
gcactgatca ctgtacctga tcccgtggag tgaagcgggtg aacgggtccga cccacaggac 360
aactgaactg aactgaactg cacaggcggc ggcggcaaga cagaggaact ggtgaa 416

<210> 4323
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G1

<400> 4323

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ctcagctcat acaaattgtca atgcaacgtc aagcacattt agcagggtcac tgtaccactt 180
caaggtcctt gaagtactca tgctcaagtg cttgcctcgc tgtgattctt ttgcctggct 240
cgtatcgaag catttttagag agaagggtcca acccagcagg gtcaagattt gggactactg 300
ttgccaggtc ctgagcttgc cacctgggga aagctgtctt gaagtcaggc aaacaactga 360
ctccctggcc aactctg 377

<210> 4324
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G10

<400> 4324

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tcaaacacct acttcttaaa ttatttacat gccaaaggctc agaatgctta tcactttgga 180
acacataaaa cgaacgactc tctcaccgtt cgttcgttca ttcattcatt cattcattca 240

ttcacaggcc agcttggtgt cgaagctcgt cagacatatg gcgaaggcct ggaaggccga 300
cagcgggtac cggtagtcca tggatgaacat gtccctcccg accttgccga actgcaggat 360
caccgggtca tggtagcagc acgacgacgg cggcgccggc ggccggggggc cggaggcctg 420
cggctg 426

<210> 4325
<211> 357
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-055-Q1-E1-G11
<400> 4325

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caatgtttca ccatagtacg aggcaacaac acatccgttc tgaaacacat gtcctttaac 120
aatctaaagc acagtagaca gataaacaac gacaataact ctaggtggcc ttgtcagcct 180
tggaggctgt ggcagcagct tgaccctga gccttcagct cctcctagcg gcaatgagac 240
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<210> 4326
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-055-Q1-E1-G2
<400> 4326

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ccgaacctcg ggcagttctt ggcccacagc ggcttgaag 399

<210> 4327
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-055-Q1-E1-G3

 <400> 4327

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 ccagattcga aatatccagc tgaatgacaa aaatgcaggg agagaatgag aagagtacag 120
 gcgttcataa aaaggaatga gcgactcagc tcatacaaat gtcaatgcaa cgtcaagcac 180
 atttagcagg tcaactgtacc acttcaaggt ccttgaagta ctcattgtca agtgcttgcc 240
 tcgctgtgat tcttttgctt ggctcgtatc gaagcatttt agagagaagg tccaaccag 300
 cagggtcaag atttgggact actgttgcca ggtcctgagc ttgccacctg gggaaagctg 360
 tcttgaagtc aggcaaaca ctgactcctg gccaac 396

<210> 4328
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-055-Q1-E1-G6

 <400> 4328

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 cagacatgtc acgagcatgc agcttcaact gcaaggcttt ttgtgacccc tgtacatgga 120
 ttccaaaat aattcgacga cactggcacg ctgcagctgc tcaactccgat gcaagcctcc 180
 tgaacaattg agagagcctg agtgctgctg cattcgccat ggctgtagct tccacatgtg 240
 ccactcggtg tcccaaagct tgcaaacttg acgctgctga tgacctggcc ttcttttggg 300
 cattccaggc gaagtgcagg tccatatctc tgcacgggct gttgagaact ccaactatca 360
 atttgggctg gatgtgcctc tgatacttgt gcgc 394

<210> 4329
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G7

<400> 4329

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ttcatcaatc actcggccaa aaattggttt gtgcaaacat ctctgatgat ggatactagt 180
ctgaaagaat ctgttctaac tcaggatccc cggccaatac atcgtcaacc atttcagcgt 240
caacaacctc tttgtcagca gggacatctt cgtcatcatc aggttcgccc gcctcttcat 300
ccgtatgatt gggaacagct ggctcgccaa tgcctttgcc ttggtcagca acactattca 360
atacttgatc atcttgagat ttggctctgg ctactgcttt gccatcagtc ctttcacaaa 420
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<210> 4330

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G8

<400> 4330

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tttccaaaat aattcgacga cactggcacg ctgcagctgc tcaactccgat gcaagcctcc 180
tgaacaattg agagagcctg agtgctgctg cattcgccat ggctgtagct tccacatgtg 240
ccactcggtg tcccaaagct tgcaaacttg acgctgctga tgacctggcc ttcttttggg 300
cattccaggc gaagtgcagg tccatatctc tgcacgggct gttgagaact ccaactatca 360
atttgggctg gatgtgcctc tgatacttgt gcgcacaaaa ttcttggtcg gcctcatcac 420
aaaggatatc ttgcttg 437

<210> 4331

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G9

<400> 4331

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gtaaaagaag gcgctctagt ctgagagaga catattaaag taaaataaca ggtactctag 120
tctgagagag taagacaggc aggcaggcca taacaaagat tctcagcttc ttcaatagaa 180
gaaacctaga accttgcttc ctacgctctt cggcggggcc tctcgtggg ccatgatgcc 240
tgccgaagtt gtgaggacga tgtatccgaa ctgcctggac gggagcagcc ttgcagtcca 300
tccctcaatg tctttcacgc cgatatcaaa gcgagggctg atgacgccgc acttggtcag 360
cctcccgttg agttcgacca cgatcttgcc cgatcggtagg tcatcaa 407

<210> 4332

<211> 244

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-H1

<400> 4332

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gttctaaatc cggatccccg gccactacat catcaaccat ttcagcatca acaacctctt 120
tgtcatcagg gacatcttct tcatcaacag gttcgcccgc ctcttcatcc atatgattgg 180
aaacagctgg ctgcgcaatg cttttgcctt ggtcaccaac actattcaat acttgatgat 240
cttg 244

<210> 4333

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-H10

<400> 4333

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cggctgatca cacgcgatca actatcccaa gtttttacag gcacagaact accaccgaca 120
ctcatgctgg agtaccgac gaatctagag ctactgacaa tattacgatt ggatcaaaaat 180
ccatgaaaga ggggaatcta taggcggaat tgagggggggg atctcgccag cgacaaggca 240

ggcagactac ttcttggcct tcctggccac gcccttcttg gccggggcgg cagcagcagc 300
 agccttcttc ggggttgcca cttcttagg agccgccgt gcctttccct tcttggcagg 360
 agcagccgcc ttcttgggtg gcctggccgg ggaa 394

<210> 4334
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-H5
 <400> 4334

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 caagacgtcc gagacatcca cataatcatc tacgatatat caacatgcat aaacgaatcg 120
 tagctaaact aagccttcac atgcagccca ctggggggtt accgctaata cacacctaca 180
 actcatcgta ctcatggaac ccatgaaaat catccaacag gacatcatca tctcctgac 240
 agtaattgca ttatggagac cacgtggatg tgccaccgca aggttacgtt tttggctcgt 300
 tgtcatggca tggaaatggc actgatgctc gcgtgacgat gc 342

<210> 4335
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-H7
 <400> 4335

ccccacgagt attttttttt gtctttttta attaaccgtt gtaatagctg aaattattaa 60
 tgtagataga cattatgcca gcaaaagcac tgatctaatt caccggcagc tggccagccg 120
 taaagaatta ggagataagt tactccacac agtctgggtc agaagatcgc cgccaggcat 180
 aacatcttct catgcctacc atctacatac tccagaaaat ccaatctact ggagattact 240
 atttacagct ttgtgagcga tttagacatt cctctagtga aacgcaagga atgcaactga 300
 tggaaagctg acaccagaaa tcaaagaact ctcatgtgag ttagaaaggc cgcgcacaa 360
 tccagaaaga ggagctgtgg cccactgact ctttgcaa at cgagg 405

<210> 4336
 <211> 370
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-H8

<400> 4336

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 atactgtcac aaactgttac cgaacactta aaacaaagac tagatgttcc ccaaaactga 120
 tgacaaagca cagctcctca gtacttgata ggggcaagaa tctccaactg agaccccaac 180
 ttctcctcgg ctgccttctc ggccttgaca cgcagcttgg ccaattgctt cttcctctcg 240
 taggcaacct tggccttctc cttcctcttc tectcaagtt ccctgatggg gtcattgtag 300
 ttccaccga cctccttaga gagctcgccg aggaggcagt acttggtgtcc aggctgtagc 360
 ctcagaacct 370

<210> 4337
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-H9

<400> 4337

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 gacaacaatg tatctgtttc cgcagacccc tccagcgaaa atcgaccac tgatatctgc 120
 aaaatcccag ttccagcttt ccctcgtaca atatgtgaaa aagaaaacaa aggtaaaagt 180
 gggcaagcca aaaacaacca cacccaagca gcccactgt atagaaaaag gactattacc 240
 aaactgggta tcggccctga caaaaagtgt caggtgatat caaccaggac cagccctcg 300
 acatcaagac cgcctaagc cactcccaca tgtcttgctt gcttggggct atagaattta 360
 ctggagcgca cagtaaaaa acagctgatg gaccacaact gaactccaag ca 412

<210> 4338
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-056-Q1-E1-A2

<400> 4338

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taatttggtta tctttgtaat tctcttcgaa ctatcgattt gatttggcta actagattgg 120
tttttcttga aatggagaag tgcttagctt tggattcaat cttgcggtgt cctttcccag 180
tgatagtang ggcagcaagg cacatattgt attgtcgcca tcgaggataa aaagatgggg 240
tttacatata ttgcttgagt ttattcctct acatcaagtc atcttactta atgcgttact 300
ctgttcttga tgaacttaat actctagatg caagcaagag tcggtcgatg tgtggagtaa 360
tagtagtaga ttcagaatcg ttttggacta ct 392

<210> 4339

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-A4

<400> 4339

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ttcgacagtg acgcgagaag acgagggagt aggctgctgc aaacgtaggg ctgtgtgatt 120
tgacagtggg ttactgctgg acaggtgggg cctgttatt tgacttgcca ttatcatttt 180
aactgtggtg ctacgaccgg cgtgagtcct cggattcttg accacctcca tacaggtgcc 240
tctcccaatg ctccaccatg tagtacaggc tggctcttgc atgagagcca acttctccac 300
tttttccttg cctctctttc cttegcataat gcaaaaatgc catgtaaagc gcaactattgg 360
taacactttt acttgc 376

<210> 4340

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-B1

<400> 4340

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aggatgaaat gaagatgcaa aggagaaggg gccgacgagg aggacgagga cgaggatgag 120
gacgacgaag aagacgactc cgacgacgaa gaagacgagg attcggagga tgaaggggac 180
gaggacgagg acgaagactc cgacgaggag ggctacgacg acgacgacga agacgaagac 240
gaggactccg atgaagacca tgaccacgag gaggacgagg acgacgaaga cgacgactag 300
gacgacgacg agtataatgg gatggaagtg gaggcctgcgg cgttcgcatc tgggtgagga 360
ttaaataag atg 373

<210> 4341
<211> 125
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-B11

<400> 4341

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gctcgtcagc atcacctcca ctatcacctt acgcttcacg taaatccatc agccaaccca 120
cgatt 125

<210> 4342
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-B2

<400> 4342

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acgatggctc cggcggcctc tgtgagtcac ggtcggcaac gggagtcagt tcattgtcca 120
tgacggtggt acttctacgc ttggcgctcg cttccgggaa gcagatccga gaccgtggaa 180
gacgatgccg gggaagaggc tccgtgtacg acgacgacgg tggaccggct ccagtgcggc 240
gtacgaagtc gtcgatgagg cagatgcgct gcggtggacg agtgcgccga tgtaaagggg 300
aggagcatga aggctgcagt gccgtggaga agtccaattt g 341

<210> 4343
<211> 336
<212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: LIB103-056-Q1-E1-B4
 <400> 4343
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 aacaattcag atgacgagta atcgcgctcat ttgttcgagc cgtgcgacat ttccattct 120
 tgccctcggt actcggtcag tcttgctgaa cggaagaagt gaaggcatgc ctgctttgca 180
 gagaagaagc aaaaacattg aattgttgta tcttgccctt tttgttatgc tgcattgctct 240
 gttaagtcac cagaattttg taatggactc ggtgagacgt acattttggc tatcccaatg 300
 ggaaatgaaa tattactaca tagtaagtat cgtttt 336

<210> 4344
 <211> 182
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-056-Q1-E1-B5
 <400> 4344
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 ctcgttgagg atgaaatgaa catgcaaagg ataatgtgcc gactaggacg acacgacatg 120
 ataagactac acaagttact ctacaccaaa aacttgattc caagattaag ggacaagaca 180
 ag 182

<210> 4345
 <211> 374
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-056-Q1-E1-B6
 <400> 4345
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 acgccgtgaa gaccaccgtc aggaaccccg atgacgggga gaagaacgcg cctctcaaga 120
 ccctggcggc gctggggccc ttggaggtct tccgcgcaga cctgaacgaa gagggcagct 180
 tcgacgacgc cgctcgctggc tgcgagtacg ccttcctcgt cgccgctccg gtggccctca 240

tgccaaagat accccgagga acaagtgata catccagcga tccaaggaac cctgaacgtg 300
atgaggtcct gcggaaggc tgtgactgtg aagcgcggtg tctcacatc atccacggcg 360
gcatctcca gccg 374

<210> 4346
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-056-Q1-E1-B9
<400> 4346

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ctcggtgcg tcagcagcac tggcagcaa atccacgtag gcgttcgcag aactccatag 120
ccggtccaga tgcgcatact tcggatcccc gaacttcgtc cgcaacaaga agggcttccc 180
agacacgata tctgcaactt gattcagctc ctctttatc gctctaattt tggagcgggc 240
ttacttggca gccacccggg cttctccag gtccgtcacc ttcgcccgat tttctcttc 300
aagaagccgt taacggtcag gagcatctt taactccacg gccatcttgg caactttttc 360
cttgctctcg caatgtgagg cctgttcggc ccttaactct tcagccgcct gtaaaacggg 420
cgc 423

<210> 4347
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-056-Q1-E1-C1
<400> 4347

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caccattggg cccggttggg ggcttgaacc gggaccacag gctgcctttt agtcccgggt 120
catgccacga accgggacca atgaggtgcc tatatatacc cctcgccgcg gagcagagca 180
ctccagtgt atgtttttct ctggtcggcg aggggagggc tttgtggtgc tctagctcac 240
ctctatgca catgaggtgt tcggtgaaat gcccagacca cactagttaa gctttctcct 300
ctcggagctc gacctcaaag ctccatcttc ctcgagattt gtctaggttt agcggcccg 360

cacgtcgcat tcccgctcttc accgccgtcg atcgcccgcg ccgatctcgt cgccg 415

<210> 4348
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-C11
 <400> 4348

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 tttgagagcg atccgtcaga gttaaccttc tctttttaca cctgcttagt taaaaacaga 120
 ctttcattaa tattagttgc acaaacgaga gtacatcaca eggcttaaac tcgatcatta 180
 caaaagtacg ccatcagcaa caccctagct gcgcctacac cattacatac ttggctgcta 240
 acctatgata caaatgtcat aatacaccct agcaccttga ttcagatttg ctatcttttc 300
 tgcggctgct atttcttgct ccgatttagg gatctattga ggaacagtgt gcaactagga 360
 tttgtttctt cgatttgggg atggattatt atagactgag ccgccaccaa ttgaagagtt 420
 ataatgaaa 429

<210> 4349
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-C3
 <400> 4349

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 gaagagctcc aagaactcgg ttctggaact tttggacctg tatatcatgg gaaatggagg 180
 ggctctgatg ttgcaataaa aagaatcaat gacagatggt ttgctgggaa gccatctgag 240
 caagaaaaaa tgcggaatga cttctggaat gaagcatcta accttgctga tctgcaccac 300
 cccaatgttg tggcctttta tggcgttggt ctagatgggc ctgggggatc cattgcaacg 360
 gttacagaat acatgggttaa tggctcactt aggacggctt tgctgaagaa ttccaagagc 420
 ctgga 425

<210> 4350
 <211> 269
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-C5

<400> 4350

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 aatttcgggc tgtctacat cacaggctga tgggcatca tattacgttt acgaggatga 180
 agtcctactt tgatgcaggc aaccttcttc atgcctcctg taaccagaat ggcttctgca 240
 ttaacgcagc ttaacttgct aatctacaa 269

<210> 4351
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D11

<400> 4351

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 cgcaaatcag actgggaatt caccagagg tgcggtgatt ggcgcgcgcc cctgaagaat 180
 tttgtagcgt tcgatgctaa ttatttgga taattggttc gggcagcctt aaccgggtaa 240
 agttgctgtc tacaaggctg aaaagtttag aaaattgtgt caaacctcag gaacaacccc 300
 tttgtaattg ctgaagaagt gggcagttca tctggtattg caccaaaaaa gaa 353

<210> 4352
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D2

<400> 4352

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 cgtcggaggg ggaatcgacc acggacggct tctacatcaa caccatagcc cctccgatga 180
 gttgtgagta gtttaccaca gacctacggg tccatagtta ttagctagat ggcttcttat 240
 ctcttttttg atctcaatac aatgttctcc cctctctta tggagatcta ttcgatgtaa 300
 actatttttg cgggtgtgtt gtcgagatcc gatgaattgt gggtttatga ttaagcttat 360
 ctatgaga 368

<210> 4353
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D4

<400> 4353

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 aatgtaaata aaaatatgat atgcatatga tgtcctatgt ataacatcca aattgaaaat 180
 tgggatgtta caaacactca cattctgata atgaagaaga taatgatgag gttcatgaaa 240
 atactcaaac aaatagtaat gaaccagaca atgatgttga gatagaaccg ccagttgatc 300
 ttgataaccc acaacctaaa aataaaagat atgataatag agacttcacg gctagaaaac 360
 acgggggaaa caagcgacca gccgagaaga aaaaagcggc cgct 404

<210> 4354
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D5

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 agatacccag aacgtccata accggggaca caactaacca tgattagttt atacactctg 120
 cagaggtttg tgcacttttc ccacaagac tctaatacat ccatgggtcaa agaaacgaga 180
 cacagtgttt ctgagacaat aactctttac tctgggtgga cagctacacc tactttcccc 240

gcctcgctct ccccgaggag ctcgccaagc acgccgtctc cgagggcacc aaggctctca 360
ccaagttcac ctctcctaa acaacttagg cttgatcctc gtcgcctcat gcg 413

<210> 4357
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D9

<400> 4357

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tctacatctt caaggtgctc aagcaggtgc acccgacat cggcatctcc tccaaggcca 180
tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctcgccggg gagtccgcca 240
agctcgcccg ctacatcagg aatcccacca tca 273

<210> 4358
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E2

<400> 4358

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aatggcgtaa caaaaggact gtcttggacg cacagactag atactcagta agctcctata 180
tgcaatccat tcccatcatg agataaatgc tccaggactt cactacgatg ggagagacac 240
ggaaatcaag tccccagat tctacagata cgtcgtgtca actcagggag gtctcgacatt 300
ggccacacg ggtgtgcact aatatataag cgtacatgtc atcactttta atgccatgca 360
ttattgcaaa atcttctgac atgaatgaat gcgatgcgcc tgtctcaaag a 411

<210> 4359
<211> 379
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-E3

<400> 4359

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aactaggcaa ggaatgtttt tgacacatth gatgaagata tgatccanaa catttatgag 120
aatttttttg gaattttttg aaaaacagaa atataggttg cctcaaaacc tagggcaaaa 180
actgccacat ggacatgaca cataggcana actgatgaga tggcgcctag tcatcacaac 240
ccaccacaat cctacaagct atgaccatct atattgggtca ttaacaacta gaaataaggc 300
agcggactaa gactgtttgc tttgtgacca tttcgtgtaa ggaaattacg gcctttctga 360
ccaaaatggt cccaatggt 379

<210> 4360
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E4

<400> 4360

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actcctctc gtctccgcc gccgcgctgc tccgcgatth gctaggtcat tgtagagcat 120
ctccgttcgc aaggtcacct aggagcgcct gctacgcttc caccaccatg ggagacgaga 180
cctccacttc tgctcagge tcggcccagg aacctgcage accggccctg cagggagctg 240
ggagtgtcaa gcagcagatc tccaacttgg tggctctgtc actccgtgcg acagtgcctg 300
aagtggatgt agaaccgata gttgaagttt gcacgggaa 339

<210> 4361
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E5

<400> 4361

gtccacgggg acacgcaaga accctagcag atcgctcgag ccctccgccg ccgccgcgcc 60
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ttacctctct ggcaacgcca gcccctctgc agaggacctg acatccattc ttgagtcagt 180
 tggttgtgaa atcgacaatg agaagatgga actcatgctg tcccaagtga agggcaagga 240
 catcactgag ctcttggtg ctggtaggga gaagtttgct gcggtaccat ctggtggtgg 300
 tgggtgtggct gtttcagccg ctgctcctgc tgctggtggg gctgctgccc ctgcagctga 360
 gtcaaagaaa gaagagaagg tcgtggagaa ggaagacagt gatgatga 408

<210> 4362

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E7 .

<400> 4362

ttcgtcggtc gacgggcggt attgacaccg acactcatcg ttatctttgc aagctaatat 60
 agccgtaaaa gcttctttat caataatata accttcagga atatcaggca tgttttcatc 120
 atcaatttca tcaacatgat gagtttcaat aatttctttc tctctagccc tagcaatttg 180
 ttcatacaaaa aattcactaa tgggcacagt agtatcaagc atagaagtag tttcatcata 240
 agtatcatgc atagcagaag tggcatcatc aataacatgc gacatatcag aacgaatagc 300
 tgaagcaggt ttaggtgtcg caagcttact cataacagga gtgaatcaag tgcagagcta 360
 gatggcagtt ccttacctcc cctcgtagtt gagggaaaaa tttttt 406

<210> 4363

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E9

<400> 4363

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 aagacccccg gcaggatcct tgccggggaa gccgcacac cgtggaaaga cccttgccgg 120
 gccacccggc aagaccctcg ccaagcgcac cggcagggcc actgccaggc ccgagccaac 180
 caagtctttg ctgccgttcg catgcagctg ccacccaga cagctgggca ggcacctgcg 240
 tggcaacatg caaccttcat ggaggctcca ccaactgcgc acctcagctg cctgcctgcc 300

aacagggcac cgcatgcagc gctggccagg gcgtgtgtcg aaacgagaac gggcggagac 360
ggacgggaca gggctcgac acgtcccca ggccgcgaga 400

<210> 4364
<211> 408
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-F1

<400> 4364

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tatgggtggc ggagtacacg agtgggttcc gatgtcagga taaccaccgt ccatagctct 120
catgtgaatg tggcaaggcc acaaaacaag ttttccatcg ccagatatcc aacagatcaa 180
ctgggtgttat ggatgcttct taaagatatt tttttgtcat ttcanacatc aaacaccaac 240
tattcacaat ggagacagga aacgtgtagc ttctcatgtc aactaagtga gcctgccaat 300
tgtggcaatg gaaggagggtg gcattgtcgc tcattcatga ggctgttagt ttcataacag 360
acattttcca gttgcatatc ttttgtaaag tgttcagact ggtttttt 408

<210> 4365
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F12

<400> 4365

gtccacgggc atagaaaata ttgttctctc atgcttcact tatatcattt tgagagtcct 60
acaaaacagc atggtaattt tcttaaattg tgaaattagt cctaaatatg ataggcatcc 120
aagatttgta aaaactttct tataagtgcg ttgaatacta agaaaagttt gatgcttgat 180
gattgttttg agatatggag gtagtaaatt aaagttgtgc tagttgagta attgtgaatt 240
cgagaaatac ttgtgttgaa gtttgcaagt cccgtagcat gcacgtatgg taaacgttgt 300
gtaacaaatt tgaaacatga ggtgttcttt gattgtcctc cttatgagtg gcggtcgggg 360
acgagcgatg gtcttttctt accaatctat ccccttagga gcattgcgct agtgcttagt 420

ttttgacgac

430

<210> 4366
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F2

<400> 4366

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gacgaagtgg agtacaagag ggagcgccat gtgattgtcc gcaaggcttg agctgacctg 120
aaccgatgga gctaccatgg aaacctctgg ccaactgatg tgtgtgtaaa agtattgctg 180
acactg 186

<210> 4367
<211> 398
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-F3

<400> 4367

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catgtcagcg ggcttccatg caaaaatgtc ncagttctca cggaggaact ggatgagcgc 120
ttcttcttat tttaggtcga gtgttgtgga gatgcggggtc ggagctgcat cggggtcggt 180
cgggtgaatg tgaacaggtt tcgtctcgcc ggacgactgg aatgcagact ctgtggcggg 240
tttcttcgat cgcagcaagt cactcggatc tgcgttttgc ttgtattctt cgaactcgac 300
cgctgtcacc tgggaatcgg caatcttggg gcccttctga tagcactctt ctgccttttt 360
ccgatcaccg gggacagtga ttactccttt ggggccgg 398

<210> 4368
<211> 391
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-F4

<400> 4368

cggggtccagg cggtgccaa aaagcggagg cggggcgagc tagaaccgca agtgactcca 60

gcaggcctag acttaatcag cagcctcccc gatgatatgt tgagagtcac catctccctc 120

ctcccagtca aatatggggc gcgaaccgtc ctttcccggc ggtggtgccc cctatggaac 180

tccagccctc tcgacctcat cgacaccac gagctctgcc atggctatcg caaaatcttg 240

gatgcgttct ccaagatcct cgacagtcac cttggtgata accacaagt ataggggatc 300

gcaaccgttt tcgagggtag agtattcaac ccanatttat tgattcgaca caaggggaga 360

caaagaatat tctcaagtat tagcagttga g 391

<210> 4369

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F6

<400> 4369

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acagcgcttg taattgtagg ccctttccgc atacttcaca gcttggtgtc ttatgagggtg 120

ctgcagggca gcaggctggc ttgtgccgcc tcggtcatta ttatcatttg taacttggtta 180

gagtgcacat taatctcagg aggacataga cataatactt atgctgctgt tgttgtaacc 240

tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaaaa tttataaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa 360

aaaaaaaaaa agggggcccc ccaaagg 387

<210> 4370

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F8

<400> 4370

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tgttgctctt ccgcttccca ggaggaggat gtttccattt cttcctgtag cctgtactat 120

actctaaatc aagctgtgta tgtatactta gcctctggca aatgttgaag tgctggatga 180
 aaaaagaaat gaagctctgt agtccatgca tgagaacaag ttatgatatt aaatgtaact 240
 gctagcatta ttttattgct gttatgaaga gtgatgctaa gtttgctaaa aaaaaaataa 300
 aaaaaaatgg aaagcaaaaa tagaaaagga gataaaaaag gcatggaaaa tttatttcca 360
 attagaaaga tgtattagga aaaggggt 388

<210> 4371
 <211> 356
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-F9

<400> 4371
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 tccagactgc cgctgctacg catgaggaga acgctaattgt gcaggacctt gtcctcctgg 120
 atgtcatccc aatgtctctt ggtcttaaaa ctgctggagg agtcatgact gtgctcatca 180
 tcaggaacac caccatcccc actacgaagg agcaggctctt ctcaacctac tccgacaacc 240
 agcctgggtgt gctcagccag gtgtttgagg gtgagaggac tacgaccagg gatatcagcc 300
 tgctcggcaa gttatacctc ttctggcatc gcgcctgcac ccaaggggtt tcccca 356

<210> 4372
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-G1

<400> 4372
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 cggatcgagt cggcgagagc gagggcgagg acgatggcgg cgctccggct agcggtgagg 120
 aggttttgcg accgtgcgct cgggagatca gcgggcattt acgagctcaa ggctgccaag 180
 gaattccccg acattgatcc tgagcatctc aaggctgcca ggaaattctc caaacttcgt 240
 gtcaaggatg ccatgctac ggctctgaat gtctccaaga ttctccgggg cagtccagtc 300
 gatggtcata aagatgtaac ccttcgtgaa gaatgtctac ggctctgaat gctacggctc 360

tgaatgtcca cggtcttgaa tgcctcatg a

391

<210> 4373

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-G10

<400> 4373

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gcggccttcc ttttcttccc tcccccgct agagggggag ggtctattc ttcctctcc 120

tcatcttcat gggaggagt cgtcttgag tcgtcggatg agggatctga cacctccagg 180

tggcaggcac tcttccgagt ccccgaggcc atcttcttga ccttcttctc cggcaccaca 240

tggggtgccg aaaccagcag ctcgccaaa cgagcgctcg ctgggccttc gggcaaagga 300

gccggatagt tgatctgttc ggacgtctcc tgccaatcct gtcaaaggta agggagctta 360

gatcccgcat ggagtcaaac tatgaaaaac tgataccctg aaaaaaaaaa gagaaggac 419

<210> 4374

<211> 449

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-056-Q1-E1-G11

<400> 4374

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ttggaaaaca gatctcctcg caagtttcca cgaagggtgt tccaggcgat tcatgtaatg 120

gcagaatgac taaaaggggtg gactcgaagt caaagaaact tgtgagatat ccagtaatga 180

agttgtggct tcggccaaga caattatcac taaagcaaca aaagaagaag cataagaaaa 240

ccaaaaagcg tgtaaggac acggccagtg ttgattgttc tggtgacaac agcagtgagc 300

agcaaacatc aacatcagca actgtgccgc caaaaactgc agaatctaca tctcgtaaac 360

ggaaatattc ccatgccagt gtaagttctg aaaacaacac ccaagcgctc aaagacaggc 420

agcaagctgt tggagcaagt antgctggt 449

<210> 4375
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-G12

<400> 4375

cggggagcat gcacgtagtg ctttattttt gatgacttat aaatttttgc aataagtata 60
 tgagttcttt ttactaatgt tgagtccatg gattatacgc acttttacct tcccatcatt 120
 gctagcctct tcggaaccgt gcattgccct ttctcacctt gagagttggg gcaaacttcg 180
 ccggtgcatc caaaccctgt gatacaatac gctctatcac acataaacct ctttatatct 240
 tcctcaaaac agccaccata cctacctatt atggcatttc catagccatt ccgagatata 300
 tttccatgca actttccacc attccattca tcatcatcat gacatacttt acttttgtca 360
 tattgccact gcatgatcat gtagttgaca tcgtatttgg ggcaaagcca ccatgcataa 420
 attttcatac aagt 434

<210> 4376
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-056-Q1-E1-G2

<400> 4376

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 cgacattttt atgcattaac tgagttttca atgcatttat gtgcataatt caaatttgaa 120
 ctactgcaca tgctccagt catataaatt ggttgaaaaa tcaaattctt gtccttgggt 180
 gcatgcttag gtcccatgca agaaatggga atgaatttca aacaccaggg caccattgat 240
 tgctagtaaa acattgagat gcctggtttt taaattctag taaattcaaa actcgtctga 300
 aattcatgaa acttggcatg ctatcatgga gcgggatcaa catgccgtgg taattttttt 360
 cccatttgga gcaagtttgg gtanatgctt ctcacaaacc agagcttctc aaaacaagca 420
 tgatg 425

<210> 4377

<211> 362
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-056-Q1-E1-G4

 <400> 4377

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cgaggtgttc caggtcgtct tccgtcggat cgtggggctg atattcatat cattgatcac   60
gatcatgaga ttcttatcag cagtcgcgga catgacagtc cgtgacatct tcgtctgcag  120
cctcgccttc atgatgtgtg gatggggcct gcttcagagt gtcacgcta tccatcttgt  180
cgtcgagatg gtcgggctgt gggggctctg gaacgctctc gcccggggct atcagatcct  240
gatggggctc ctgctgttct agcacatcgc gttccttgcg tggttccccct ttgtgtccga  300
gttcagagc tggatgcttt tctaccagtc gttcagcagt cgcctgcaga tctcccgtat  360
cc                                                                    362
  
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<210> 4378
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-056-Q1-E1-G5

 <400> 4378

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gaggtagtag ctattacctg ttttattatc aaacctttgg gagttacttc tacgtttgcc  120
attatgctat gctatgctag tagacgtgga ttgggtgagt gatattcatg acagatgtga  180
gtttttttta ttaatggttt atctaagatg gcaacttaaa cacagatctg ggtggattga  240
ggtagcctggg tattccaggg ttgcctgttt cttttggacc gccacccagg ctcaaaggga  300
tcatgagatt attcatacta gaaactttcc tgtgcagcca caagccatta tgggctctgg  360
catagttgaa taagtcgtgc gaac                                                                    384
  
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<210> 4379
 <211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-056-Q1-E1-H1

<400> 4379

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cgggggaaga tgccgagttt gaactctcga ggaagcagat gctggcgact ctggatgtca 120
tgatgggagg gctgggtggc gaggagctta tagccggaga aggcggggtc accactggtc 180
cctcaactga tctaagcgag gcgactcagc tggcgaccga catggtcacc aagtatggca 240
tgggcaagcg ggtgggcttt gttacctata gcaatggcgg tgatgctagc agtggcaagg 300
cgaccaacat gagcgagcgg atgtcagaac tggttgacga ngagggtgaaa gatttactgg 360
acaacgctta cangaacgcc aaa 383

<210> 4380

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H10

<400> 4380

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tgcttatttt gatgaatcta tggctagtaa aatagtttat aaaccataga gaagttggag 120
tacagtaggt ttaacaccaa taaaaataaa gaatgagttc attgcggtac cttaaagtag 180
tattttgttt tctttctcta acggagctca cgagatttct attgagtttt gtgttgtgaa 240
gttttcaagt tttgggtgaa ttcttttgat ggattatgaa acaaggagtg gcaagagcct 300
aagcttgggg atgcccattg ccccccaag ataatccaag gacatcaaaa agtcaaagct 360
tggg 364

<210> 4381

<211> 304

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H2

<400> 4381

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tttcagaccc ctccaccaag ggccacgaaa ttccccctct cttcctccat atatacatcc 120

cttaaggcaa cgttttagact ttgggttttg tttagattaa aagttcgcca tagctgcaac 180
 ttgcgcgtact tcgtttgtgt tcaacgacca gacaaaggcg tcacagaacc ccaccttgat 240
 caataaagct ttcattcttat attcgcaata tccagattgc aatcttaggt tcttgcatgt 300
 tctt 304

<210> 4382
 <211> 279
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-H3
 <400> 4382

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 taaagtcatg gcaattgggt gaatatgaaa ttaaagaaag cttgtgggtga agtttgtgga 120
 tcccgttaca tgaacttagg ggaaccgctt tgtgaagaat ttggagcaaa attttattta 180
 ttgagtgtcc tccttaagag tggcggtcgg ggacgagcga tgggtattttc ctacaaatct 240
 atccccctaa ggaacatgcg cgtagtgctt tggtttttg 279

<210> 4383
 <211> 242
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-H4
 <400> 4383

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 gatacaaaat tagtatactg tataactatctt gaaagtcgaa ggcggggctt ttctgctgca 120
 gtaggtggca gggcagttcc acctagtcgg ttctacatag atacgagaag accagtgagt 180
 acgttgcttc aaacgcacgg ctgtgtgatt tgacaacgag ttactgctgg acaggtgggg 240
 tc 242

<210> 4384
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H5

<400> 4384

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actgggtgag ggacgtcgcg tggggcgcaa acctagggct accaaagtcc acgatcgcca 120
gcgctttctca ggatggaacc gtcgttatct ggaccgcgcc gaaagaaggc gagcagtggg 180
aaggcagggt cctgaatgat ttcagaacct ctgtttggag gctgtcgtgg tcgctgacgg 240
gcaacatctt ggcggtctct gatggcaaca acaatgtgac cctctggaaa gaagctgttg 300
acggcgaaatg gcagcaagtg actaccgttg agccatagat gttctgcgtt ctgcctctag 360
gttcttttagt aattactata tcataaccaa tgtaattttg cc 402

<210> 4385

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H7

<400> 4385

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gttcgcgctt gaaaatggat gtagcaaaaa cttcgccgat attagcaaaa tccaactatg 120
gttgacgcaa agatcatcat cgccgcccgc gcgaggatcat agctctgcct tgatggagggt 180
agcacaatat ttcgctggta gtaccacaac acatctacgg ttacagcaaa acttggtatc 240
gccggtgccc cacgtccatc ctctttgtat aaaaaatgaa gccggttgta gcaaacaacg 300
gagttgggtg cagcttttcg gcgtcgtcca tggcttctgt agtctatggt tgaagctttt 360
tttgccgcgc gttgaatctt tt 382

<210> 4386

<211> 328

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-056-Q1-E1-H8

<400> 4386

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cagcagccgt cncagcccc gtctttctac tggcctcagc atcaggccta cagcaatttg 180
ccccacagt cttgaagata tgtatgcttc agagatggca atgtcaccga ggttcaccan 240
tgatcaaggt cactcagcct actcancaag ccacanatca gccatcctta acaggcttca 300
tcagcagaag ggtctcctct cacctgtc 328

<210> 4387
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H9

<400> 4387

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tttttgcaat aagtatgtga gttctttatg actaatgttt agtccatgga ttatacgcac 120
catcaccctt ccaccattgc tagcctctct agtactgccc aactttcacc ggtaccataa 180
accaccata taccttcctc aaaacagcca ccatacctac ctattacggc atttccatat 240
ccattccgag atatattgcc atgcaaattt ccaccgttcc gtttggtatg acatgcttca 300
tcattgtcat attgccatgg atgatcatgt agttgacatc atatttgtgg caaagccacc 360
gttcataatt tttcataca tgtcactctt gattcattgc atatcccggt acaccgccgg 420
aggcattcac at 432

<210> 4388
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-A11

<400> 4388

cgacaggcaa cttccttaca gagggtcctt cattaagggt tcacgttgat ccaggggtgc 60
aggctcctcc ctgggagagg tgcttggtg agcttgatgt ttgtgatgct gtgtagtgaa 120
tgatgcagca tatggactgt atcatctgtt tgccatgtag cgctgtaagc catgtgtttg 180

gtttcagcaa ttgttttagct gcatcaatth acaccgtgcg tcaagttcat cgggtgtcgaa 240
gctgacatcg tgtctagaat gcaccttgcc ttggaactga cgttttcaa ctaatcttgt 300
ttacctcata atctgggtgta gctaaaaact tgggtgtgcct aaaaaaaca t 351

<210> 4389
<211> 390
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-057-Q1-E1-A2
<400> 4389

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gtggtttttt tgcaaaaaaa caaatacaact gccccatgga caacttttcc cggacggagg 120
gagtactagt taaatctgag ctatgggtgt gaagcactga tatgccagta catttgattg 180
tgacctattc taattttgta cctgaacttt ttttagaaag ggttgtacgt aaacttaatg 240
tgctagcaga acttattgtg ttgtctatct gttttctttg cacaacattc aagatatttc 300
cccatcattg ataaagacga tgaaccgtta tgtacgaact cgttggtttc aacatagccc 360
ttencgtagt gatccgctgc ttccatcctg 390

<210> 4390
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-057-Q1-E1-A4
<400> 4390

cggctgtagt ggaggaggcg gtgccggctg gccagcaggc ggaggaggaa gcaatccttc 60
acccttgagg attcagggtta gccagtgaca cttcagggtg gtgtgggttg acggcttcgc 120
gccactatgg aacttgtagg gagcatcaag ggttttctca taggagaagg cgggcagcca 180
agcaggcttg ccacccttct gacgcttggg gccgggttga ccctctggct gctgatcttc 240
cactgacgcc acttgccagc tgggtggaagc cggctgcggg gccttgcgct tgttgtcctt 300
ctgttgctgg caccgactgt tatcaccaac ctgcgtctgg ggagccatag ggagcacttt 360
cccagatgcg tccactcgga gctccgactt c 391

<210> 4391
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-A5

 <400> 4391

ggaacttgat gcccctgaga tgaatgtggg cagcttgat gatcatgtcg agatagacat 60
 caacagtgc gacgacgacc tggagtacac gatgaacaag atgtctataa ccccgaccca 120
 ctctttctta caccagatgg ccatggacag cgacggcggc ctcagcatgc cagcgaggat 180
 cagaccatcg acaagccctc cgtcgcggtg ggccatgtca ggagaatcac catagatgga 240
 agaaacagct ggataacttg ggctgtacaa ggagggtatg actgtcaaac tgatacgggg 300
 agcttagttt gtagtggggg caaagaaccc attcatttgc agtgtattca gcccaagtaa 360
 ttcgaaaatt ttgggttgag agtgtgaagt acagatgttg ttagaaaacg t 411

<210> 4392
 <211> 321
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-A7

 <400> 4392

cgggggatac gagaaagatt ccggctctgt ttcttggcgc accgcggcga ccggccgacg 60
 agcatccacc gcctccaagc cgcctctcct cactgcagca gcgtagcgac ttcttctctc 120
 agctgcagag cctctccgca tcaagagttc cttgccatgg agcatggact gtggctcgagc 180
 ggagctagcg acaagaacaa ggccatggtt gagcaactgc agagatatgg ggtaatcaag 240
 tcgagcaaag ttgcggaggt catggagacc accgataggg ggctgtttgt gcctcagggt 300
 gggctctcca attttgatag c 321

<210> 4393
 <211> 200
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-B1

<400> 4393

caagaggagc agtggcaggg agagaaggtg aagactacgc catgtgagtt gctgatgttg 60
tgccttatgc ggtggggata agggatgtgt gatgtgcttg tgtggcgaaa ggcgatgagt 120
ggcttttcct ttttgcggga ggctgttcat ttttgtctat tctagtttta tattcacgat 180
acatacaatt agttatcacc 200

<210> 4394

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-B2

<400> 4394

tcacgggaga tatgacgcac gtgacgcaag cgttcgtata cacgcgcata tactcatccc 60
tatgaacgca tacacgcaca ctctatccct atgagcatct tcgaaatact gattcgacat 120
atcattttta aaacttacga agtcatcgta gtcacctacg tctcatccca ctgaatacgc 180
attgccagaa atcttgaagt aaatccagga acacatgcgg gcaccaagac ttaattctga 240
tgggttgga taccacagtt cctctaacca tccaatcaca ggggtgggttc gctacgaagc 300
acgttattga aatactacct ccctctgggt gcacaggta tacacgtagt tctacg 356

<210> 4395

<211> 55

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-B4

<400> 4395

agaccaccgc aggcaagaag cccaaggccg aaaagcggct gccggcgggc aaaac 55

<210> 4396

<211> 352

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-B5

<400> 4396

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 ccagacctcc gtccgcctcg tcttccccgg ggagctcgcc aagcacgccg tctccgaggg 120
 caccaaggcc gtcaccaagt tcacatcctc ctagactgac ggcgtgcagt tggtttctgc 180
 atctgcatct gtactcttga ctctgcttat ctatctatct gcaagtagtg gtggtggtag 240
 tagtacctgt gctgggtgat tgccaacgct ttgttgcccc gttggttgta agagctgaag 300
 ttgctgcttt ggcaactga aatctatcta gaactgaagt tgtggtccta aa 352

<210> 4397

<211> 379

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-057-Q1-E1-C1

<400> 4397

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 accaaaagac atgaaaggaa gccatagaat ccagaaccca cggggatgta cttattgtg 120
 taatggtggt agtcagcgc cataagacaa cacacatoga agaagaacct gaagcggcga 180
 ttgtacgttt taagtctcac aatatcccc tcagttgagg agacaattga tgatgtcaaa 240
 gaggtgtgta ntgtgtcca tgttgcgcat gtggcgcttc ttcttgaagc aaccagattc 300
 acgtgaccat ccctgttgca gtagctgcag tgactgcggg agtgaccctt gccaacagaa 360
 ggagaaggca agaatggtg 379

<210> 4398

<211> 280

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-C2

<400> 4398

gatcgccgag cctagccact cccccgcgc atctggagcg acctcccacc gaggtaaacc 60
 cccaaaacct agtcgccgtc gccggcgccg ccgcagccgc agcagccatg aacgccttca 120
 ggttcctcgg ggacatgacc cacctcttct cggtcacgt cctcctcctc acgatctacg 180

ccaccaggtc atgctcaggg gtgtcaagga ataccagga gctgtacctg gcgggtgttcg 240
 tggctcgcta cctcgacctc ttcactgact acatctcgct 280

<210> 4399
 <211> 160
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-D1
 <400> 4399

gatggttgag caggaccacg tggagggctg gttgaacagg accccgtgga gggctagtgtg 60
 agcagtagct taagatttcg aggatcgaag cccattgttg ataggatttt gatatgcata 120
 tgatgtccta tgtatagcat cgagattgat aattgggatg 160

<210> 4400
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-D4
 <400> 4400

gcaggccacc aggtccacca ggaatgcctg ctattgagta catgtggctc cgaactccca 60
 ttttggtgaa ttgactgat tctgcaccgt cacttgcctt gtaaccaatg acgccgtgct 120
 ggatcagcat gtaggtgtat ccaagtgtgt agaatcttgt ccttttactt agcccgcgca 180
 cttcgcagtc ttgactatg aaccatattg cgcagccggg ttacactaca tccgacagga 240
 tgacaatagg ccatgtacac atatggttaa taaaaaacgc ttgcaattta attacctact 300
 ataccaccgt cctggtttta gtatgattta actaataaaa tatgaatgca t 351

<210> 4401
 <211> 236
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-D5
 <400> 4401

gacggggccaa ggcgagtcgt cctaggagga agcaagggat gcgcgggcgcg gccggggcgg 60

cggtgatgcg cgccgcccgt gctctctgca gatctgactg agggtcagca agtttttgaa 120
gataatgcac aaacttttaa attagtttct tcgtttatc tcttagattg attctcttgg 180
ggtagcactg atagctattc cctccgttcg gaattacgtg tcgcagaagc agaggt 236

<210> 4402
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-E11

<400> 4402

acacggctaa ccatgattag attgtacact ctgcaaaggt tggcgaactt tccccaaaag 60
aatcgatttc ctccgttga tttcccgac ttcattgctgt ttgagaaaca gatgaccgag 120
acacagtctt tcagaagcat taactctaac tccgggtaga cagtaccaac ctacatccct 180
ctacatctgc gagcctacca cttgaagagg tcatgcaact tactcaacta tgtagagacc 240
cataatagct tgtggctgca cacggaagtt tctagcatga aatatcttag atccctttga 300
gcctgggtgg cggaaccgtg gattgtcaca cgggtactcc gggatatcct aggacaacac 360
tggattctcc aggtgcccc acaagcaatc cacctagatg tgtattaaag 410

<210> 4403
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-E2

<400> 4403

gggtcgacgg cattctgcta ctgatataga tgaaggagag gatgaggatg aagaagatga 60
agttccttca gcagtgggat atggtgctct gtatctgttg acagcttttc ctgtcattat 120
tggaatatca gttgtgctga tccttttcta caactctcta cagtagcatc tgctcacctt 180
tgtttctgaa gaagatgccg cctttttctt gtaaagccga gttacaacgc tgctgaatga 240
gcaccccttt cttcgtctca tagtaaaata gtttctgcaa tggtagaca acattgtaaa 300
gccttgaggt tgtacactac acgaaaaagg aaaaggctct gaagtattgg ctttttctag 360
gaaactgaaa gttgattaag aaaaacaagg gaaccagtc aacggaaaaa gcggcgc 417

<210> 4404
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-E3

 <400> 4404

ataccatata tgaagcgacc cgacccgaat ggatcaagtg ctctgtgctc aggtgtcatc 60
 cctggatcag taatgctgac accacacagt acatcgaagg atttatagca gagtggcaat 120
 cacacactta ttacatcggt gtctcaaaga gaacttatta caataaatat ggcttaaggc 180
 catctaataa cgataacagc ggaagactcg gaagataaat ggggccatca actccaacgg 240
 catcactgag tatagaacca cgacctaaaa gcaccttact cgtcgtctga aaagtctgca 300
 acatgaaagt tgcagcccga aaacgggtca gcacatggaa tatgctggca atgtaacaca 360
 tagagagtaa tggaatgaaa caactatact atatgcatat atggccggtg gaaaact 417

<210> 4405
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-E4

 <400> 4405

cggccaagac cccatctcac gaatcaggcc caacttggcc caggagataa ttcaaacgta 60
 acttctctggt cgccagatc tcatcgagac ccagtgccgg cgctggcgcc gccgtcagcc 120
 gtttcttctt ccggcgatct tcgacgacct tccaagatcc cacaaagtca ccgagagtaa 180
 gagcagtgag acgcacctta ggtaatggtc ccttccatgg cctgatcgct gtcgtcgccg 240
 ttctctgatg aacaactcgc cggaccatct cgtttttctc tcctgcatgt aaaccgatcc 300
 ttgtcggatc atcaagggga atcaccttgt cgacagttaa tgacacgccg tcctcatcgt 360
 aactgaatgg aaaaactcgc agatcaagtc ag 392

<210> 4406
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-E5

<400> 4406

tcgacgggaa gaacggcgag ccgaggagga caattagcta catggctgag cgggtggtag 60
gaactggttc atttgggatt gtcttccagg ctaagtgctt ggagactgga gagactgtgg 120
ccatcaagaa ggtgctgcag gatcgccgtt acaagaaccg tgagctgcag cttatgcgct 180
ccatggacca cccaatgtc gtctctctga agcactgctt cttctcgacc acaagcaggg 240
atgagctgtt cctgaacctt gtcattggagt atgtccctga gactctatac cgtgtgctca 300
agcactacag caatgccaac cagcggatgc cgcttatcta tgtcaagctt tacatgtatc 360
agcttttttag agggctagct tatgttcata ct 392

<210> 4407

<211> 371

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-057-Q1-E1-F2

<400> 4407

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acatgcccat gatcaggaaa acataaccat catgcaacac ttgagctagt cttagaggcc 120
agactangaa tacatctttac cgctttattat tccacatgtg catatgagtc cttcctccga 180
gcctcggtgt tattgcagac tcgagaacca taacagttat agcatggaac ataaacataa 240
ttatgaactc ggagataaat aatatcattt attattgcct ctagggcata tctcctacag 300
aaaacacaca aaaaagtata agaatacaac acagcacatt tagggcatca ctaacaaaaa 360
ggaagctgtt g 371

<210> 4408

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-F3

<400> 4408

cggtcgacgg gtaaaactgaa agtgataaag aaaaactttt aaaaactctg tttgctcttg 60

ttgttgtaac atgaaaagcc agcattcaag tttcagcaaa tattatgaac taaccatact 120
 cacaataaca cataggtctc acaattactc gtatcaatag cataatcagc tagcgagcca 180
 taataataaa actcggatga caacactttc tcaaataat cataacatga tataacaaaa 240
 tggtatctcg ctagcccttt ctgagaccgc agaacataaa tgcagagcac ctttaaagat 300
 caatgactga ctaaacattg taattcatgg ttaaagagat ccagtcaagt cataaccaat 360
 ataaaccaat aataatgaat gcaaatgaca gtgtgctccc cagcgggtgc 410

<210> 4409
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-G2
 <400> 4409

cgggtccacg gcgaaacgta agaagataac gttcgcggat gaagctggag gatcgctctg 60
 ctctgttaag gtgttttagtg atggacagac ctctccttct gcatgccagg gcgagttagt 120
 aacatcattt tggctgatag tgtcaggcat ttctttcata ataagttggg tttgataatg 180
 aagaatcaaa aaagatggcc ctgggtttttt ttgttcaaag agagatagat ggccctagag 240
 ttgggaacca agtaatgggg gaatgcttct gtgtcattgt gtctatactt ttttcttcta 300
 gcagtgtatg tttagatggg tagagtccat gtgaagtggc ttctaaactg ttccatcaga 360
 atgccacctg ttgtaatttg taaacaagaa tcgacttgct gcagtttgat gt 412

<210> 4410
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-G4
 <400> 4410

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 atacctagat ctatccttgc ttttatgcct acctaggggc gttaaatgat agcgcttggt 120
 gggaggcaac ccaattttat ttttagtttc tttgtttttg cttctattta ggaataagta 180
 atccatctac cttctgttta gatgtggttt tatcttttaa ctagtgtttg tgccaagtta 240

aacctatagg atcttcttgg atgatagtta tttgatcttg ctataatttc cagaaacttt 300
 ctgtgtcacg aaaaaaattg ttaaaaatca ccagaatgtg attccaatgc tactgattaa 360
 taaaaaattt ggctaagtat tcctaatttg gctgaatttt t 401

<210> 4411
 <211> 301
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H10
 <400> 4411

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 ggagacggtg aagacgcgga tcctctgttc catttgagta gcgtggcgac ggacgtttgg 120
 gtggacggca gcttgctcct ctgattgttt tgcttctgat gtaaaaaatg ttctctctgg 180
 tctgctgccg cgacatcaag gggacctgct taatttggtg tgggtgtgcc tacctggtgc 240
 ctgagtttga cttaatttta tagggttttg cgacggctcct gccgcctttg gcttgtgtcc 300
 t 301

<210> 4412
 <211> 82
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H2
 <400> 4412

aatcttcaga aaaaaaggac ttcaagttct agacggcgcc gttttgttac tgttgctctt 60
 ccgcttccca ggaggaggat gt 82

<210> 4413
 <211> 82
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H6
 <400> 4413

aatcttcaga aaaaaaggac ttcaagttct agacggcgcc gttttgttac tgttgctctt 60

ccgcttccca ggaggaggat, gt

82

<210> 4414
 <211> 362
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H8
 <400> 4414

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 ggttagtcat aaaatcctac ttaaaacttg tagatcactg aatatgatat gtttgattcc 120
 ttgcaatagt ttgcgatat aaagatgggtg atattagagt catgctagtg ggtagttgtg 180
 gattagtaga aatacttgtg ttgaggtttg tgattcccgt agcatgcacg tatggtgaac 240
 cattaggtaa cgaattcgga gcatgaggta ttatttgatt gtcttcctta tgattggggg 300
 tcagggacaa gcgagggtat tttccaagaa acttatcccc ctagggggaat gcttagtatt 360
 ac 362

<210> 4415
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-A10
 <400> 4415

cgacggtaga ggagcccaca tcaacctcaa ggtcaagggg caggatggca atgaggtttt 60
 cttccgcata aagagatcca cacagctgaa gaagctgatg aacgcttact gcgaccgtca 120
 gtccgtggtt ctcaactcca ttgctttcct ttttgatggt cgtaggctcc gtggtgagca 180
 gacccctgat gagcttgaga tggaggaagg cgacgagatc gacgccatgc ttcaccagac 240
 cggaggggtgc tttcctggcc cttagaagga gcttgctgca gcctggctgt tctatgtcgt 300
 atgctacctt tagaactaga gtaaaatgta agaagtgaag gaacttgtga ggctatggtt 360
 ctgtgccata gcctgagggg ggggtctggag gtgaaacaac atcggagtac tgttgatgtc 420
 gtgactgaac t 431

<210> 4416
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A11

<400> 4416

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 caaccccaag gttccccatt tcgctaaccg gaatccggac ttgttggtcc tgcaattcaa 120
 ctagaagaag cacaattcca tgtgctacag cctcaatgtc aatgtcctcc ctttcttcag 180
 gttctacagg ggagctcagg gcagggtcag cagcttcagc tgcaccaatg caaccatcaa 240
 gaagttcaag gacgccctcg caaagcactc gccggacagg tgcagcctcg gccgggcacg 300
 ggggctcgag gaggcggagc tcttggtctt ggctgcaaac agggacctgg aattcaccta 360
 caacgagaag ccgacgctgg tgccgatcgc cgaggccatc caaatggaag ctgcctcc 418

<210> 4417
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A12

<400> 4417

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 gtttgcttat tttgatgaac caatgattat tatcgagggg tatgacccat agaaaatttg 120
 gaatacagta gatattacac caatatgaat ttacaaggag ttcacaatag taccaaattg 180
 gggattaatt tcctaataca aacggacctt acaattttcc ggtaaatttt tgtgttgtga 240
 agtttcaagt tttgggtaaa gattcgacgg actatggaat aaggactggc aagagcctaa 300
 gcttggggat gctcaaggca cccaaatgta atattcatgg acaaccaaga gcctaagcct 360
 ggggatgccc cggaaggcat cccctctttc gtc 393

<210> 4418
 <211> 400
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A3

<400> 4418
 tcgacgggcg agaacaaatg agattatctg ttgagttttg tgttgtgaag ttttcaagtt 60
 ttgggtaaag atttgatgga ctatcgaata aggattggca aaagcctaac cttggggatg 120
 cccatggaac ccaaataata ttcaaggaca accaaaagcc taaccttggg gatgccccgg 180
 aaggcatccc ctctttcgtc ttcgtcaatt agtaacttta cttggagcta tatttttatt 240
 caccacatga tatgtgtttt gcttggaccg tcttgtatga tatgagtctt tgcttttttag 300
 ttaccccaa tcaccttgc tgtacacacc ttttgggaga gacacaacat gattcggaat 360
 ttattagaat actctatgtg cttcacttat atcttttgag 400

<210> 4419
 <211> 331
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-A4

<400> 4419
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 ctgatgtgtt catcgggtgga aatgtgcgtg caattgtttg ttcgtgtctt ggcccatgta 120
 ttgtgtctgt cctgagggtca caatcttgct gtcacatta cctgaaatga aaatgttgca 180
 atcggttcta agaaaaaaaa cattaaatca acaacaaata ataacattaa atgaaaaata 240
 aaattttaat caacacacta aaaaatgatt ttgcatgaaa aaaaaagggg gcccccaaa 300
 gggttcaagc ttaatttacc cttgaaagca a 331

<210> 4420
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-A7

<400> 4420
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 tcgaaataaa gcatcaagtt gatataaaca cgatgacaac atacacggcc tctgcataat 120
 taagacgcac ataaccaata ccaacacaca cacaatgtac ccgctagcaa atagcaaggc 180

catatacgac cacagcattg cataagcgag agaaaaaccc gaagcgaagc gaacaaatct 240
 gcgatcgaca aactacaaca atgaccatat ccacaccaac catctcatga tatkataagg 300
 acaacgggggt tcttcaacag caacgccttc atgatgagag caacgctcga gagccgccgt 360
 catcggattc aaccaccaa ggtaagactc taggttttca ccctga 406

<210> 4421
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-B1
 <400> 4421

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 ttctttttac taatgttgag tccatggatt atacgcactt ttaccttccc atcattgcta 120
 gcctcttcgg aaccgtgcat tgccctttct caccttgaga gttggtgcaa acttcgccgg 180
 tgcattccaaa ccccgatgata caatacgctc tatcacacat aaacctcctt atatcttctt 240
 caaaacagcc accataccta cctattatgg catttccata gccattccga gatataattc 300
 catgcaactt tccaccattc cattcatcat catcatgaca taactttactt ttgtcatatt 360
 gccattgcat gatcatgtag ttgacatcgt att 393

<210> 4422
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-B12
 <400> 4422

ttccatcaat gcaagcctct ctaataccgc gcacctttca ccgatatcat acaccaccca 60
 tataccttcc tcaaaacagc caccatacct acctatcatg acatttccat agccattctg 120
 agatatattg ccatgcaact ttccactggt cggtttacta tgacacactt catcattgtc 180
 atattgcttt gcatgatcat gtagttaata tcgtatttgt ggcaaagcca ccgttcataa 240
 ttctttcata gatgtcactc atgagtcatt gcatatcccg acacaccgcc agaggcattc 300
 acatagagtc atatttggtt ctaagtatcg agttgtaaga aaataaaagt gtgatgatca 360

tcattattag agcattgtcc caagtgagga aaggatgatg gagactatga ttccccacaa 420
gtcgggatg 429

<210> 4423
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-B2

<400> 4423

cgggtccacg cggccacgtg acataggatc gctctatgca ccccggtgtca gcagcttccc 60
tgagaagagc ttctaccagg caacaccaga gaggcaccca tacccttacg aaaggcagtt 120
tgtgtacggc gctgaggccc accaccaccc tacgatgatg aacgcggctc cctacaccat 180
ctcaccgcc caccgcgct actacggtaa tggctacccg gtgcagtacc agatacctta 240
catccactaa tgggggagag ctacaatggc tctttccaaa ctageccctag cttttaacct 300
tccgctgttg ttgctattgt accaactcat ctaccaatth tgcctagctg aaaatagttg 360
gaccactcgc ttg 373

<210> 4424
<211> 379
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-058-Q1-E1-B3

<400> 4424

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ccccttacgg atgcttgggg tgtagacgac aagcttcacc tgaatctggt ggctttgact 120
gatgaggacc tggccgcac tctcctcctc ttggtcgggg atgactagga gtatccgccg 180
agtgccactg tccccttggt actccgcaag gacagggcgc aggtgggtggc tactatgccc 240
acatttgatg ggcgcgctct ggtgccactg gcaccccttg tgggccggga gcaacggcgc 300
cggtggacgc gtcttcgggc gactccctca gangaggagg tgaggaggaa gacgaggagc 360
gtgactcgga ggtgacccc 379

<210> 4425
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-B4

<400> 4425

gacccaccat tcacctacgc tcttcgcttc ctccgcccgt accttcccc ggtcttctcg 60
 cttcagatga gttaacgtag atggctgacg cagaggacat tcagcccctt gtctgcgaca 120
 atggaactgg aatgggtcaag gctgggtttcg ccggagacga tgctccacgt gcagttttcc 180
 ctagtattgt tggccgtcca cgccacactg gtgttatggg agggatgggg cagaaggatg 240
 cttatgttgg tgatgaggcc caatccaaga ggggtatcct gactttgaaa taccocattg 300
 agcacggaat cgtaagcaac tgggatgaca tggagaagat ttggcatcac accttctaca 360
 atgagctccg tgtagcacct gaagagcacc ctgttcttct tacagaggct cctcttaacc 420
 c 421

<210> 4426
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-B5

<400> 4426

gggtcgacgg gactgtgcaa agaaagagga ggaagaagcg cgacgtgggc caagcggatc 60
 acgtcatcac caacttgaaa cagaggcagc tccacaggat gcaagctaag atttgcggtg 120
 atgcaacgtc aaaacactac taaatgttca cctagctgca tgtcattggc cgatgatgaa 180
 caacttcatg actgggaaat ctggggcggt acacaagtta atgccctagt atcacaccgg 240
 catttgagca tatggcgtag tagtgaaaat gactcatag atggcatttc ccaagatgtg 300
 cgcattcgga agtgagactg gaatgctcct ggtctcggcg catgaaccgt cgggtggagtc 360
 gtgggttagtc ccagcgtgac tctacatttg ccagatgctg atagcccgtt cctttcactt 420
 tcctcc 426

<210> 4427

<211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-B9

 <400> 4427

cgggtacggt tacgaaatca aattagtctc tttcagtcta gtagtaaaat taatcattgt 60
 ttatatatca atgcatgaat gacagtacaa gtttggtata gggcttaaag aatagatggg 120
 ttacattcaa ttctcgctcg gaccggcact cagtacttat cattacatgg taaaactatc 180
 aattgcactt ggtggttatc acagagttga gatcaagata ctaacacaaa atcatagttt 240
 ggtggtggat tacttcatat tcatcatgga ggcagcggag aagttaatgg agaggctgga 300
 gatgtgacca agagagtttc tgggtgcagt ttccgggtcta atcttcgttc ggcggcagcc 360
 ttctaggttt tttgtctcat attaccaac ctaatttgc 399

<210> 4428
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-C1

 <400> 4428

ggggtccacgc gacatgcaca attgatactc ttgcattcaa aatcattagt cttggatgat 60
 ttaagggttct attatgaagt aaaatatgta atattcataa atgaatacaa cgggtacgca 120
 atttttgaaa tggaggctat gtaatcatat gaggtaacac ttttaagtag cggactacaa 180
 tatccatttc tttttgtgcg cctctacact aacacgtcaa tgcattatgt ttaaagtaaa 240
 taaccaattg cactaaatta tctatttaca cgagaaatac ataggctgag cgtttgatcc 300
 cttttttgtg atcgcgccac tacaccgta cgattggcgc cgcccgctg aatgtccaag 360
 ttatcgggtgc atcatccga gttattgtct ttttttctgg ggtggacttc acaccagtta 420
 ttaactgctg 430

<210> 4429
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C10

<400> 4429

gggtcgaggc gaagatggac gccatctact cgacctcgtc ggcggcggcg agcggctggg 60
gctacgactc cctcaagaac ttccgcgaga tctccccgcg cgttgccagtc ccacctcaag 120
ctcgtttacc tgacctatg ctttgccttg gcctcatctg ccgtgggtgc ttacctgcac 180
attgccctga gcatcggtgg gatgctgaca atgctcgcgt gtgttggaac catcgccctgg 240
atgttctctg tgccagtcta tgaggagagg aagaggtttg ggctgctgat ggggtgcagcc 300
ctcctggaag gggcttcggt tggacctctg attgagcttg ccatagactt tgacccaagt 360
atcctcgtga cagggtttgt cggaaccgcc atcgcttcg ggtgcttctc tggggccgcc 420
atcatcgcca agcg 434

<210> 4430

<211> 347

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-058-Q1-E1-C12

<400> 4430

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gtgtacaaga tgcaggaaaa ggagaatttc acataccaa cagttaaagg ctttggtcct 120
cttccaaaat ctacctcat tgcaaagca agagactcaa tcccagtagc aagagtgaca 180
acagcaatgg caagtggcag ggtcagaaga aatgcagatg cagcagcaga atctagtgcc 240
gggaaaaggc aagctagang agggactaga gctccaagag gaaggaggag tgctggaaga 300
ggaggagcta cagctccaat aggagggaag agtgctggaa gaagaag 347

<210> 4431

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C2

<400> 4431

ggtcgagata tccgggtcga cggggggaca aaattgataa tagcgacaag aaggaagggg 60

cttccgattc tgtggaggaa tcggggaaaag cttctgaaga gaaggcccct gagaacactg 120
atgccaagga agagaagtca gatgatgctg aggagttgaa agggtcagat gcacaatctg 180
ttaaaaagga tgataaaagc ctttcagaaa atgacaagga gccagtttca agggaggact 240
tcaaagaata ttttgccaaa tttggcacag tgcggtatgt ggacttcagt aagggggatg 300
attcaggata ccttaagttt gaggaatcga cggccgcgga aaaggcccgt gcatttgcag 360
ctcttgcgga tgaagggtgt ttggttatga agggccacct tgtcactttg gaacctgtgt 420
ctgga 425

<210> 4432
<211> 436
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-058-Q1-E1-C3
<400> 4432

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canggccaan aagggcgtgg aaacttacag attcaaaacc tcaaggggct gaagcaggtg 120
caccgggaca tcggcatctc ctccaaggcc atgtccatca tgaactcctt catcaacgac 180
attttcgaga agctcgccgg cgagtcggcc aagcttgcga ggtacaacaa gaagcccacc 240
atcacgtccc gggagatcca gacctcgtc cgcctcgtcc tccccggcga gctcgccaag 300
catgccgtct ccgagggcac caaggctgtc accaggttca cctcctctta ggctgttctg 360
cttcctgtgt ctcgtagtta gctgttcggg tgtgtttgtg gccgtgttat cctgtaagaa 420
tcgcaccgag atgttt 436

<210> 4433
<211> 287
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-C4
<400> 4433

tactccgaag ggtatctggc gttacatcct gacacacctg accccattgc ggccgatctg 60

gacaaatggg tgggtgttggg catggggcca aaggaccacg gtcgggaggc ggttctcgat 120
acggtgatca ctccgtcaat cccttaaaca cagctccttc ggatcaaccc gaccctaatac 180
cagcccacta tcacgcgcac aagcattgca ccgtcactgt ccccttttga ttaccaccaa 240
cctgtaccta tttccccctt gagctccaat gtcccttta gtttccg 287

<210> 4434
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C6

<400> 4434

ggtcgacgcg ccggaagac agcgacgagc ctgaggagga gcggctgcta cggaggctgc 60
tagcgctcta ccgtgcccgc caagcaaagc tggagtcctg ggaagcgctc gtcgcgaagg 120
cgagcgtgga catagagaat tgcgcggagg agcttcgggg tcttcgccag gaaactcttc 180
gggccttggc agacgagcgg gagcagcttg cggaggagcg gaaaggcttc ctcccttgaga 240
aa 242

<210> 4435
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C9

<400> 4435

gggtcgaggc caagctgcag tcccagtgt aacgggtgaa cttgcggatg ggcggtgagg 60
cccgtaggga gttgctgtat aacatcgaat acagtgccga gtactgaagc agtgagtact 120
gggcaacctt ccctgatttc aacatctacc tgttatcagt acctcagccg cagtcatttt 180
tactgattat gccttgtttg ctgattttgt ttcttccagt ttgattttga tgatgccggt 240
gttctttcaa tcaagtaggc acgtgtagtg tttgccgga ctcgaagagc acagaggctg 300
tagtctgtaa attatacttt gtaacagttt tccaatcat tcttcagtat cccaggcttc 360
cttttttcgc tggagagaca ggatgagatt ttatttgta ggatttcaga ataaggctct 420
aatacatttg t 431

<210> 4436
 <211> 89
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D1

<400> 4436

tgccatccag ttgctggaca cgatccagct cgctgaggcg gacgagttcg aggtctatat 60
 gaaggacctg gaggccctgt gtaacccca 89

<210> 4437
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D10

<400> 4437

gagtcggaca agatcgcccg ctacaacaag aagcccacca tcacctccag ggagatccag 60
 acctccgtcc gctcgtcct ccccggggag ctgcgcaagc acgccgtctc cgagggcacc 120
 aaggccgtca ccaagttcac atcctcctag actgacggcg tgcagttggt ttctgcatct 180
 gcatctgtac tcttgactct gcttatctat ctatctgcaa gtagtggtgg tggtagtagt 240
 acctgtgctg ggtgattgcc aacgctttgt tggcccgttg gttgtaagag ctgaagttgc 300
 tgctttggca aactgaaatc tatctagaac tgaagttgtg gtgc 344

<210> 4438
 <211> 382
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D11

<400> 4438

gcaaacgaag gaattgttcc ctgggggctt gccaaaaaaa cccaaaaggc aaaccaattg 60
 gaaaggccgg tatggaaggt tggccgggaa gggcaacttc ccaacatccg ttacaattcc 120
 ccacccaatg ggcaaggctg gaatgtgctt ccaccctgat caggacagga tcatcactgt 180
 tcgtgaatgc gcccgatccc agggcttccc tgatggatac catttcgctg gcaacatcca 240

gagcaagcac aggcagatcg ggaacgctgt gccgcctccc ctctcctatg cgctagggag 300
gaagctcaag caagccatcg acgccaagcc tcgactggct taagttcact gcactgcatg 360
atacaagtcc cgtcattttt tg 382

<210> 4439
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-D3
<400> 4439

gggtccacgc gacaggacta atgagtgaag tgcggtaaag atgggcagtt gctgaaatgt 60
tccagctgct tcttagccgc ccatgctacc tgttttggtt catcggtgac attcgatgac 120
tctggccact ttgattgccc tgtttgctat tgccgtaaag ccgctaaagc attggaaaag 180
gctaagaaaa cataactctga agctagaaaa aaattatctg ttttctgcag cggctggaag 240
caattttcta aggaacacag tgagctgatg aatggctttc acacagctaa aaagcaaggt 300
aaccatcagt ctgaagcagc tgagctatgt cgcaaggatg gagagcctag tcacttgaaa 360
gaaaatggta caagtgatgc ttgtcctgag aatgcagtca ccacaaagac aaccattttt 420

<210> 4440
<211> 374
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-D4
<400> 4440

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ctgcccctca tccctctcgc cgctgcagct ccggagaagc acctcgtgac ccacctcccg 120
ggcttcggcg gcgcccctccc atccaaacac tacgccgggt acataaccgt ggacgagagc 180
aatggcagga gtctgttcta ctacctggtg ctgtcggagc gtgacccggc catcgacccc 240
gtcgtgctct ggctcaacgg cggccccggc tgctccagct tcgacggatt cgtctacgag 300
aacggctctgg attgatccta atcttacctc ccttcgggac cggcagttcc ctttgttgtc 360
ctcctgtgaa ttg 374

<210> 4441
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D5

<400> 4441

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 gcttgacgtc catcatctac ccggtgaaga cggatctgcg agtaacccaa catccatcag 120
 cgcttcattg gagaagcagc aagcaactg aagctgtagc tagctctgga ggccatgcat 180
 gcatcaatgt gcatttcatt ttactgcctg ctgcttggtt cccttttttg ttgttattat 240
 tattatttcg gtgtagtaaa aggggaatttt tgctcctgct ttagctcttg ggtctgggtc 300
 tcggcggttg gttccattgc atcgcatgta gatgtcgtag tagtggtggt caaagtaact 360
 cctctctcta gtccctagtc tagctgtagt ggctctgaaa gtattgtatc cgatgaagg 420
 g 421

<210> 4442
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D9

<400> 4442

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 cagatgattc agatggtatg gacgacgatg ctatgttccg tattgaccc tatattgoga 120
 ggattttcaa ggagcgcaac aaccttcctg gtagtgaaac tcagcaatct caacttatgc 180
 gatttaagct tcgtgtgctt actttactgg agttatatct tcagaggaat ccaggaaaaa 240
 aactggtgct ggaggtatat gctttcttaa tgcaagcttt tgtgaaatca catagcgccg 300
 atggcaatga gcagttcagg caacgtattg gtggtatatt gcagaaaagg atattcaaag 360
 caaaagaatg tccaaaaggc tttgatgttg aactcagtag acttgaaagt ttgctgcaga 420
 aggctctgca tctggcatca 440

<210> 4443

<211> 381
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-058-Q1-E1-E1

<400> 4443

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 tccgccgccc tcatcaacca gaaatgccac gtcaagaaca aggatatcag gaagttcttg 120
 gacggtatct acgtcagcga caagggcgcc atcaaggagg agtagagtgc gaaaaaccgt 180
 cccaccagaa gccgtgtttc tgcctgccgt gtttcacgtg ctttgtgtcg tcgttgctcg 240
 gattttgaac tttctctagg ctgaattttg tagtgggggt aattattang gatgtgccat 300
 ggaacatgtt atctttatta tctgtattg tcgccgcgag aatgggtccg acgcttatct 360
 acccctataa aggctgaaga c 381

<210> 4444
 <211> 369
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E10

<400> 4444

gacgcgtacg gctactccag ttattcactt ctgctcatta ggttgagttg aagatgaacc 60
 tctatctcaa agacgccagt agtagctact aggtcggcgc tattgcatat tctgcaaaaa 120
 tgtatctcgg ctaccaattt gttggcacga ctcatcttagc tattttcgac aaatgaattg 180
 gataaaatac tgagcatctc agcccgtgac caatcaacat cctctgtcca tcatgggaca 240
 gatatactaac agtttggttag ccagagttag caggcacttg atttttggtt tgacgtcgat 300
 gatcgtgtcc gcttcttgcc tgtttgccct catgtccgcc agtacgtggt gtatattccg 360
 cctagctga 369

<210> 4445
 <211> 306
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E11

tactattaac tatgctctta gggcatcttc aatggctata agatagttgt tgggccacat 120
 aggatthttga tgatgtgtca taaaataaat gaggaagag agtaagattg tatgtacatg 180
 aaccaacacc ctgtgcacaa gcttcaatgt agaataagag agcaccttat ttattatttc 240
 acatcttatt ggacacacta gatacaatct attggagtag ttttatgtta aggcgttggt 300
 tgatgacatg ccatatttta cgaacaagct aacaaacaaa ctgttgagaga tgctcttaag 360
 cagtttcatg tactcgggac tagcanacat gctgatgtgg cagacaaaaa gaagagaga 419

<210> 4448
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E3

<400> 4448

gggtccagtc tccggacgca gaagacttag cagctttcag gcataacgtc cgagacgaat 60
 ggctcgccag acacctcggc caagaaaagc caagaacaat ggccgcacta acaagcctca 120
 tgacctgctt ttatgcaggg gaagacagtt ggttggaaca gtgcagcccc agcgacccaa 180
 gtacatccga aactaaggat ggaaacggaa aaccgcgacg caacaaggac catcgctgga 240
 ctaaggacaa aagtccgaag agcacggcag tcaatgccgg attcaaaggc tcacgacaaa 300
 atcaagaaaa attgccgccc aggataacag ggacgatcca tccaacctaa ataaaatcct 360
 ggacaagata tgtcagatac acagtac 387

<210> 4449
 <211> 261
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E5

<400> 4449

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 acacctogag cttaacatgg cgtgaacaat tgtctogata gatttgctcg tcaactgctt 120
 ttatgcacgg gaggtcagtt ggttcgcagg gtgcagcccc agcgacccaa ctgtattcgg 180
 aaactacgga tggaaccgtg aagccgcgac tccactagga gcatcgctgg actaaggcct 240

agattccgat cagctatggg a

261

<210> 4450

<211> 316

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E6

<400> 4450

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gtcaaaaggt ggcgggccgg cccatggaaa gcctgttaac gacctgttcg tatatagccc 120

atttacagcc cgctaacca agggccgcta caccctatcc gaattaggcc cagtagcgtc 180

atctggggcca tccaatatga ttccagccta atttcacttc cgccccatt tagggccaag 240

aagttcttcc ggccaatata agggccaagg tactccttgg ccaataaccg gcccttgta 300

aacctggccg gtatta 316

<210> 4451

<211> 185

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E7

<400> 4451

gacgggtgga gcgaaccagc agaggctcat tcctgtgata aggccggcct gtttgacttg 60

gtcccacggt ggcgggccgg cccatggaat gcctgtgatc gacctgttcg tatctcgcc 120

atttgcagcc cgcgaccct cggtctgtta gaccctctcc gagttaggcc ctgtatcgtc 180

ctcta 185

<210> 4452

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E9

<400> 4452

gggtcgaggc gccgaacac gctgaacaac aggtgatcgc gcgagaagct cttcctccgt 60

aattaagtag cggccaagcg aagaccgggg cagagctgca aatgcaagaa gcaaggagga 120
gcagagcaga cactccggcg ccggtggtga gctgctgctg aaccggagcg ccagtcagaa 180
tttcccgctc ccgagctggt ctttctgccc ggtgcccac cagcatcctct gtccatcatg 240
ggacagatat ctatcagttt gttagccata gttagcaagc acttgatttt tggtttgatg 300
tcgatgatct tgtccgcttc ctgcctgttt gcgctcttgt ccgcgagtac ttggtgtata 360
ttccgcctag ctgatgtect tttgttctac catcagaaac aagaattggt ctcttgct 418

<210> 4453
<211> 378
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-F10
<400> 4453

ataagtattg tatgtgaaac caaaattgag gatctcttga aaggaggctc gtgacatgat 60
acgaagccag gcgtgaggaa taacctcaga aacagggggg aaaggagagt caggtttcga 120
tctcgtggaa ctgtgggtta tgggcccacc atgtgggtta aaagtaggaa ggggtgctggc 180
atcttgcacg gttatgatag caaggatatg tagaggatag tatgtcagtt atgtcggcaa 240
caacgttggg accaagggcg agggatgaag agaaccattt tctgctcgt tgaacgaggc 300
tgaccaatag gcacagttct catccatcgg tggctaccgg aatgtcaaca ccaatagtag 360
cagggtcttt actgacag 378

<210> 4454
<211> 402
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-F12
<400> 4454

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tcaatctgac ctgctcaaaa ctgagaattt gaagatTTTT tccctttata tgtatatcac 120
ctgtagcccc caagtgtcgg gttgtcatgc tagcagcaac ctgggatttg taattgcctt 180
atgtcataa aacttcaacc agtgtagccc ccaagggccg gtttagtaag atattactga 240

gctgggactt tgtatataat tcattgataa taatatcata tgatgtaata tccaccatgg 300
 ggcttgaacc cacgtccaaa aggttaagag ctttgtgctt tacaaactga gcaatggggtc 360
 cttcaatata atggattaag acttgtgtac cttgaactgt tg 402

<210> 4455
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-F2
 <400> 4455

gggtccacgg gggcggagaa cagagcgcgt aattaaactc gaataccttt ccgcggcggc 60
 ggtagagcac tgctattaag cgattttgga gaagacagat gaattcgagt tcctttcaga 120
 tctagtccat agatttgcac cgctgacttt gagtgtgggg gacgaacttc ttgacaagga 180
 ggcttccggg ggatctgtcg gattaagccg gtgggtgcac cgatgacagg gatgtgagcg 240
 ccgcggtagc cgtgaggcct atggacctga acgacaatgg tacttgogag actgcctttg 300
 cggcggactc gggtcagttg gtgctgagag atgatccaca aacgcctggc tggacaaaag 360
 acgttcaacg atttagctgc tactcagtcg tctaattatt gtgtgttgge cttttagtcg 420
 tgtggcaagt ctgt 434

<210> 4456
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-F3
 <400> 4456

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 aatgctctgc atggagctac tctagctaatt ttctcccact ttcagtatgt atccagattg 120
 agacttagag tcatctggat cagtgtaaaa gtttgcaccg atgtaacttt tacaacgaaa 180
 tcttttatca cctccataat cgagaaacat ctccttagtc ctcactaagg atattcttga 240
 ctgctgtcca gtgatctact attagattaa aattgtattc ctttgccaaa ctcagaggaa 300
 ggtataaaat atgtctggtt cacagcatag catactttat agaacctatg actgaggcat 360

aggggaatgac ttttcattct ctttctatct tctgccatgg tcgggtcttg agtcttactc 420
aact 424

<210> 4457
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-F7

<400> 4457

ttcgacgggt cggaccagat caggaaggag ctgcgggca aaggcatcgc cctgatggac 60
gagcctaccg ggacgggtgtg gagaccatgc gaacgggagt agtcgggtgat taatatgtgc 120
ctggtttaac agatgacagt gtacaacgga cggatcttat tgcgctggtg cagatcttac 180
tcatgcaata tcgccagttt tggacgtggt gtttctgtag gggttccaag ttgactcaag 240
agacgaggcc cgtgttgtgt cggttgttgc gtaggaggac aaattgaagg gtcctccgta 300
tattggtata cttcactaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgctct 358

<210> 4458
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-F9

<400> 4458

acgggcaaga agagcgtcaa gacctacaag atctacatct tcaagggtgct caagcaggtg 60
caccgccaca tcggcatctc ctcaaaggcc atgtccatca tgaactcctt catcaacgac 120
atcttcgaga agctcgccgg ggaggccgcc aagctcgccc gctacaacaa gaagcccacg 180
atcacctccc gcgagatcca gacctccgtc cgcctcgctc tccccggaga gctcgccaag 240
cacgccgtct ctgagggcac caaggccgtc accaagttca cctcctctta gattcagttc 300
ctggcagctg tagttgggtg ctgtttgccc agaattagtg ttgctcagtg gaaatcggtg 360
gaatatcggt tagtttgtag ttgggttggg gatgttaccg tgcctatgga ctgatcgatc 420
tgaaatagca atggtctggt gc 442

<210> 4459

<211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-G1

 <400> 4459

 aagtatatag gtacttttatg actaatgtga gtccatgggt atacggacac tcagcettcc 60
 actttgetag cctctattct gccgcacaac tttcgccggt ttcatgcacc cattacttac 120
 cttcctcaaa acagccacca tacctaccta ttatggcatt tccatagcca tcccgacata 180
 tattgccatg caactttcca ttgttccggt attatgacac gctccattat tgtcatattg 240
 ctctttgcat gatcatgtag ttgacattgt atttgtggca aggccaccct cataattttc 300
 ataaatgtca ctcttgagtc attgcatatc ccggtacacc gccggaggca ttcatataga 360
 gtcatatattt gttccaagtg ttgagttgta attcctgag 399

<210> 4460
 <211> 376
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-G12

 <400> 4460

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 aagagggaga gaagcaaccg tgagtactaa tcaaaagtac tcgcaagcaa agagctacac 120
 tacatatgca tgggtgtatg tgtaaagggc catatcagtg gactgaactg cagaatgcc 180
 gaataagagg gggatagcta gtcttgctga agactacgct tctggccatc tccatcttgc 240
 agcatgtaga agagagtaga ttgaagtcct ccaagtagca tcgcatagca taatcctacc 300
 cggcgatccc ctctctgctg ccctgttaga gagcgatcac cgggttatat ctggcacttg 360
 gaagggtgta ttttat 376

<210> 4461
 <211> 421
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-G2

<400> 4461

gggtcgaggc gaggtgacaa tgaagactga tatggttacc ggcagataaa agggggctgg 60

aagggccgct ggcactgcac aactaacatt caggcgctgt cacaaggctg gagaggctct 120

atgcatcgct gctgctattc atgtcactgg aaagctgaaa actgccaaagt ttgattgttc 180

tcaccgtggg aaggctagca ggacaaatat attgcatcat gtgaagaagc aaacaaagca 240

gcaacaaggt tctacaagcc cgggtgtatag gcagatgatg gcgatggctg tgaagacgat 300

caggctcagc catccgccat gaacatatgc ccaagaacaa acaacaatt aatcaagtga 360

atgcatcaaa atgtgtagat acaggtgaca agtgcttgaa ctactagcta gcattgggct 420

g 421

<210> 4462

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-G3

<400> 4462

cgggtccacg ggatgcacac aggatgtcgt cgctaagcat gctagctgtt gtggtatgtg 60

aggggctcgc tgggatccgg ctcgtacagc tccatgagcc tctggctccc attggctgat 120

ctgctgggac cggcttcatg gacgagggtt atggcgaggt ggacgagggt gacggcgagg 180

tagatgaggt tgacgacgga cagggccagc tccggctcgc cgacatgggt gaaggggtgcg 240

gccatagaag agcagatcga aaaaaaattg agccttctcc tcacccgagg aaacaatgcg 300

acaaaggagg gtgaatcaac gcggccgagg cgtggggcgg gggagctccg acgaagcccc 360

gggaagctgc acgagtgagt cgagcagggg agctccggcg 400

<210> 4463

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-G4

<400> 4463

caagcgggca gatatggtga agggatgggc ctcaattcag tcagttccaa ggacaattgc 60

tctcgacgag aagacccgga cgaacctcct cctctggccc gtggaggaga ttgagaccct 120
 ccgcctcaac gccaccgaac tcagcgacgt cacccttaac accggctccg tcatccatat 180
 cccgctccgc caaggcactc agctcgacat cgaggccact ttccaccttg atgcttctgc 240
 cgtcgctgcc ctcaatgagg ccgatgtggg ctacaactgc agcagcagcg gcggtgctgt 300
 taaccgcggc gcgctaggcc ccttcggcct cctcgtcctc gctgccggtg accgccgtgg 360
 cgagcaaacg gcggtgtact tctacg 386

<210> 4464
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-G9

<400> 4464

ctaaaaataa agttcttcga ctgaagactt tggatttctg aagactttct gaagactttg 60
 aaagtgaaga aattggtgtg accttgaaga cttggtattc attcgaggaa catgaagcgt 120
 gaagacttat gttttcgtag tttcattttc tctttcttga gtcataaggaa acaccgtact 180
 gttaaagggg gtcgaggaaa tactaaggaa aaatttccat gttatgctca actcaaaatc 240
 ctacacctac caatcccttc gagtgaagcc attggaaatc tcatacagtc cagtcatatt 300
 cttcagtgc agagacgaag ttcttctggt ctctgaggaa tttgttctga ctgaggagtt 360
 aggaattcgc cagtgtggat tgcctacaca gtgaaggaca tgatagccct gaggaatttg 420
 atactc 426

<210> 4465
 <211> 367
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H1

<400> 4465

agctgagagt cactgtcatg gcgcgtcacc tgggtggatcg atctgtcagg cgggcttctg 60
 gagtactcgc agctaaaaca tcttcaagaa gctatgctaa acttgaagtt ttctcttgta 120
 aaatggaagt cactgtcgct tgatctcatc tcccgtactg gctacattac cgtgacatgc 180

cgtgtcctag catatgaatg tggctttggt ttggctctag gtgccggaag tagttatatt 240
 atctatgcat gtatgtacgg ttcgtaccat gtgttatctg gtggtactgt agattaaact 300
 ggggtgggtgg taataggaca tatcattcga cttgtcataa ctactaagtt agacatatac 360
 ttcaaaa 367

<210> 4466
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-H10

 <400> 4466

gactgggagt ggtactgcga gtgggctaag ggtggcattg agactgagag ttccaccggg 60
 aatgatatgc agagactgat ggccgatgag caagaagagc gcatacgaaa gaagggtggag 120
 aaggcaatgg ccactttgca agtctccatg aacagtattt atgacatcaa tgtaccatcg 180
 aagatatccc tggacgatcc agatgatgaa acaacattgg agcttgatcc tgagttcctt 240
 cctccaacgg cgtacttaag ctcaagacta ggtgagcatg atggcaacta tctcctttct 300
 gatttggaat ttgagcatga ccctttttct ggttgcaatt ttgacctgaa gctcaaggat 360
 gactactgaa atgatagttt gtctagatca acagtattac tctgttgagg tttcatcggt 420
 cagtgactca gtg 433

<210> 4467
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-H11

 <400> 4467

gggtcgaggc ggggaatacaa tagatattac accaatatga atttataatg agttcacaac 60
 agtacctaag tgggtggtttt attttcttat actaacggag cttacgagtt ttctgttgag 120
 ttttgtgttg tgaagttttc aagttttggg taaagattcg atggactatg gaataaggag 180
 tggcaagagc ctaagcttgg ggatgaccaa ggcaccccaa ggtaatatta aaggacaacc 240
 aagagcctaa gcttggggat agccccgaa ggcacccctt gtttcgtctt cattcatcgg 300

taactttact tggagctata tttttattca ccacgtgata tgtgttttgc ttggagcatc 360
 attttatttt cttttgtttt gcttgctgtt tgaataaaat accaagatct gaaa 414

<210> 4468
 <211> 256
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-058-Q1-E1-H12

<400> 4468

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 tggggccatgc anaattcaca cgatatggga taccatacca acacacagcc ttagaggatg 120
 ttggatactt cggcaggtgg ccaagacggc gaggatctcc tcattaacaa taccgaggag 180
 catcatcccg cagaaacgac aatacagtgt tgacagtctt cgagactttc acctcaaata 240
 acaggcgcaa gagagc 256

<210> 4469
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H2

<400> 4469

aagaagggca gcaaggccaa gaagggcgtg gagacgtaca agatctacat cttcaagggtg 60
 ctgaagcagg tgcacccgga cgtcggcatc tctccaagg ccatgtccat catgaactcc 120
 ttcataacg acatcttcga gaagctcgtc ggcgagtccg ccaagctggc ccgctacaac 180
 aagaagccca ccatcacgtc ccgggagatc cagacctccg tccgcctcgt cctccccggg 240
 gagctcgcca agcacgccgt ctccgagggc accaaggccg tcaccaagtt cacctcatcc 300
 tagacagctt aggcttgatc ctgcgtcgtc catgccttct gtgtgtacct agtcggcagt 360
 atgatgttac aatctttgta aggattctgc tgcttg 396

<210> 4470
 <211> 284
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H3

<400> 4470

ggtggcgtgg aggtttttctc ggtgtgggtc ttcgctgggc cggggcaggt gcacccgcgt 60
ggtccggatc ttctcaaccg agctgtatgt cttcggtccc ttcaatgtgg aggtcatcgt 120
gaatgtcgtc gggaatctta tcgtgctagg tgtcatggct tgggcggcca acatcgagtc 180
ttgggagatt cagatcttcg tgtttcgctt gctctttcgt gagctggcca ggccaccttt 240
ctgcttttgg accactgtcg tctccaactt caatgcagcc ttg 284

<210> 4471

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H4

<400> 4471

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gtgcttcatt taaacctttg gaccttgaaa gttttggccc aatggcttca cttaaaccctt 120
taaaaccacg gcggtggctt aatttggtaa aaattgcaag ccccccaggc ttcacttaaa 180
taattttgaa agcctttttg aacagcatgg tatttgcaat ggttataaaa gtgggtccaag 240
aatggtaggc atccaagttg ggtataataa aaactatcgt aggaagtga tgggatgcta 300
tgatcaattt gatacttgat aattgttttg agatatggag gtagtgatat taaagtcattg 360
ctagttgggt gattatgaat ttaaagaat 389

<210> 4472

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H6

<400> 4472

gtaaaaacaa ttgtcagcat acttaaccag agcttccatc ggctcccca tgtcactgaa 60
gtggcggttg agccgccta gcttctgctt aaggggcaaa aaatgacaat tcttctctaa 120
catcaagact actgagccga cattgatacg atccggtgag tgcaggatag ttgagacgcg 180

gcgaccccaa tgggttggtg actcgccctc ttcttgga caagagtcca aatccacaat 240
cgacatagga tgtttgcatg tatctttaa ttctggataa accgggcttt taacttggcc 300
catgatccaa tggagttggc aggcagccct tttaaccaag tacgggtcgt cccatccagc 360
atcatggtga aatatttggc acacgcagca ttgctaacat ccaacagctc catg 414

<210> 4473
<211> 350
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-H9
<400> 4473

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ggaatgctgt gtgggtagta gggagtatgt tgggtatttg tttggttact gtaaagagga 120
acacttcctt taatagccat tgttatgtgg taggtgggtt agtggtgcaa ccagaggatg 180
catgtgttct catgtggaag ggacagtgat aatggaaatg agctgggtgt tagttaataa 240
tcagttagta aaaaaaaca taaaataaaa aaataaagt caaagtctag ctaaagatca 300
tggacattat ggaaaatctt aaagacaaag ggaaaaaaa gtgcccagag 350

<210> 4474
<211> 77
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-059-Q1-E1-A1
<400> 4474

cgggatatta caagaccaga tggcatggt cccaatagtg gtcctgtcga cgacgaagag 60
cagacggcct ctctgat 77

<210> 4475
<211> 402
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-059-Q1-E1-A11

<400> 4475

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tacctgatac caatgtgcag gagataaaga ttagtccagg aattatgctc ttaatatatg 120
atcgaacgcc aagttatgtt cctttgagga tattatctat tgaagatgga aagccactca 180
aattattcaa gcacttggtg caccgcggca agaaaattga ttttatcgag caattcaatg 240
agaagctcct tgtgaagcaa gaagacgaga accttcagat acttgatgta cgaagtctcg 300
agctaattga catcagtatt gagaagtttt atgaccgctc agcattaatt tttctgtatg 360
agaacaatct cttcttgaca ttccganaca gaacagttgc tg 402

<210> 4476

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-A2

<400> 4476

ccggtcaaga atatccgggt cgactggatg ctataatgaa gccgtttatg ctccgccgtg 60
ttaagattga tgtcatagca gaaatgacgg aaaagaaaga agaaattgtg ccttgcagat 120
tgagttctcg ccagcaaatc ttctatcaag ccataaagaa taagatctct cttaatgagt 180
tgcttgatgg aagtcgtggc aatctaaatg ataagaagct gcttagcctg atgaatattg 240
tcatgcagct acgtaaggtc tgcaatcatc cagagctgtt cgagcgcaat gacggaagct 300
attactttta ttttgaggaa atcccaaatt ctcttcatcc tccccattt ggggagttgc 360
aagataaaca ttatgc 376

<210> 4477

<211> 332

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-A3

<400> 4477

acgggatagg ggaggggggt ggagacggga atgctagggg gtgtggtctt ggcaggctgt 60
gagggatcaa gagacgcaat tgtggcctgc agattgagtt ctgccagga attcgtctag 120

gagggccata cggatatgat ctctcttgat gggttgcttg atggtagtgc tgggaatcga 180
 agtgatgaga agctgcttag cctgatgaag attgtcatgc agctacgtaa ggtctggaat 240
 catccagagc tgttcgagcg cattgagggga agctattact tttatcttgc ggaggtccca 300
 tgttcgcctc ttcttctccc atttggggag tt 332

<210> 4478
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-059-Q1-E1-A4
 <400> 4478

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 gcccttgccg tttatgttgc ggcgccggca cttcttcttc ggggcgggtg tgtcttcgct 120
 tgtggagtgc gtttccgcac cagcgtcctc actgggggtac ttctctccct cctcagctcg 180
 agcgcaccta tcggccagaa cataaagctc ggccacatct ttgaccttgt tcatcgtcgg 240
 ctttcacgca tcttacgggt gcacacattc tgatagaatg cgctgatcac ggtggcggga 300
 tgaacatctc ggacgttgta ctacaccgg ctgaacctct gtatgtacct gcgccgggtt 360
 tcaccttctt tctggangat gatattgaaa t 391

<210> 4479
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-A7
 <400> 4479

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 ataaccattg cccaaaccag ttgcttcagt caacagtttg tatgctgagt gaactgaaaa 120
 tagacctcgg ttatttggct gccatgccca aaaatcttcc cccacactaa ttgggattcg 180
 tacaattgcc tccgcacaa tacctatgaa gtttgcttcc accttttgca catccattc 240
 ttcataattc tcaacaagta gttcagaagc atgattggca gtagcataca tgggctttaa 300
 catagccttg taagaattat tggaagggat tcatggattc tcccacacat ttatagtatc 360

cccatcgccc atccttttga taagaccaat tt

392

<210> 4480
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-A9

<400> 4480

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gttttcttcc gcatcaagag atccacacag ctgaagaagc tgatgaacgc ttactgcgac 120
cgtcagtctg tggatctcaa ctccattgct ttcctttttg atgggtcgtag gctccgtggg 180
gggcagaccc ctgatgagct tgagatggag gaaggcgacg agatcgacgc catgcttcac 240
cagaccggag ggtgctttcc tggcccttag aacgagcttg ctgcagcctg gctgttctat 300
gtcgtatgct accttttagaa ctagagtaaa atgtaagaag tgaaagaact tgtgaggcta 360
tggttctgtg ccatagcctg aaggggggtc tggaggtgaa acaacatcgg agtactgttg 420
atgtcgtgac tga 433

<210> 4481
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-B11

<400> 4481

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cggcaacgac atcgagctcg tctcccgtc cgccgcctc atcaaccaga aatgccacgt 120
caagaacaag gatatcagga agttcttggc cggtatctac gtcagcgaca agggcgccat 180
caaggaggag tagagtgcga aaaccgtccc agaagccgtg tttctgcctg ccgtgtttca 240
tcgtctttgt gtcgtggttg tgattttgaa ctttctctag actgaatttt gtagtggagt 300
taattaggga tgcgctatgc aacatgttat ctttattatc ctacatattg tcaccgtgaa 360
aaaaaaacaa aaaacagaaa aacaaaaata ggctacaaaa aaataaaaaa aaagcggccg 420
ctct 424

<210> 4482
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-059-Q1-E1-B2

 <400> 4482

cgggtcaagaa tatccggggtc gacgggggatc ttgaaataca gtaggttttaa caccaatata 60
 aataaagaat gagttcatta cagtacctta tgtgggtggtt ttgctttctt tcactaacgg 120
 agcttatgag atttcttggtt gaggttttgtg ttgtgaagtt ttcaagtttg gggtaaagat 180
 ttgatggact atggaataag gaggtagaag agcctaagct tggggatgcc catggcacc 240
 caagatattc aagaatagcc aaaagcctaa gcttggggat tgccccggaa ggcattcccct 300
 cttttgtctt tgttcattgg taactttatt tggagctata tttttatttg ccacatgata 360
 tgtgttttgc ttgtagcatc ttgtatgaca ttagtatttg ctttttagtt taccacaatc 420
 atgcttgctg tacacaaca 439

<210> 4483
 <211> 201
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-059-Q1-E1-B3

 <400> 4483

cctgagaacg gaagggggcg tgtcgattgc gtctctcac gggatgaacc taaacacgaa 60
 agcaggggtc tggaagtcaa cgaacttgta agatccttcg agtgagttca gatagattgc 120
 ttcgcggggc tcttcgctca cgccgctctg catggcatac tccagtgcc tttcatagtc 180
 aacctgttca acatgctgcg t 201

<210> 4484
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-059-Q1-E1-B4

 <400> 4484

cggctctagat atccccgggtc gaccggggaga atgagaagag acctagtcgg gtctatttat 60
 aaggaaaaga ctgttaagtg ggcgcaaaaa atgaggagcc caaaaaacat agttatccaa 120
 ctataaggac gcctcgattt tcggacgggtc actaagacaa agatccgttg agatacattg 180
 gaagaaccgc gtatttatag caggtgacat catggcgggt tagcacaaat tcaagggatg 240
 atgtcatggc aggttacaaa aagcttcata agcaaggagc agaagatttt tcttaaagta 300
 tcgaagattg acatgaacca gttcaaatca atctggggcc taatgttggg gatataacta 360
 taaggtatga ccctccctgg aggggccggg ttatatctat gagtattctg aagcccaaga 420
 cc 422

<210> 4485
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-B7
 <400> 4485

cgggccgacg gggaatgaac ggtgagcagg tgagctctgc tctgcctctg cccagctcct 60
 ctgcatcagc tgtaacgtta ttctgcttgc gaattttctt agatcatcaa tcagggagcc 120
 ggagcttgaa tgaaacctga gtaggcttgc gaattttgta tgacctgcaac atcatttggt 180
 catgaattat atccctggtg tagaagttaa gttgctgcaa tggttgacat tcgattaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacgggcccc 360
 ccaaaggtt caag 374

<210> 4486
 <211> 361
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-B9
 <400> 4486

tgacggggcg tgcttttaggc ccttctggcc agcggagtga acatcccatg cgaatcagcg 60
 tacttgaaca tatggtgcag gccctccata accaatataa acatcaatat aaacatcagc 120

cccccttaggc tcatcaatca gcagttttgt acttatagca tactaaataa aatgctcttg 180
 tatacaattc tgatctatcc gtaaaaatgc tgacatgtca aatatgtttg ttacttttgc 240
 agtttgtag agaagcaatt tcttcgatga tgctggagac tcggctaattg cagttttgtg 300
 ctggttgcat gaatgtacag tcgtcgcgct ctcaagtctcg gtgtatcggg atttttaacc 360
 t 361

<210> 4487
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-059-Q1-E1-C3

<400> 4487
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 atgtaaggca gctagcacac caatatttct gtatcttcac aacgcttaat ttttcttcac 120
 ttgtcctggc tggaagtatg taccaagtat agctatcgaa ggccattcta ttttgctttg 180
 taaccgggtc aatcgtttat atacatatat atactactca aaaataattg cataacgatg 240
 gttgttcggt tggtattatt ccataatata caggccgaat catggctgac acggacagca 300
 agaagatcga tctaccatac tatgcgttga aatatctcct gacgattgta tgtatcgcgc 360
 tgggttgcttc cattgtttgg taactgacgt ctactanccc actatggatg actgcaag 418

<210> 4488
 <211> 236
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-C4
 <400> 4488

tctcacctcc atggcctcca ctttcgacgg tcgtacgctc agtgggtgagc agaccctga 60
 tcagcctgag atgtatgaac gcgaccacat tggcaccatg cttcaacaca ccggagaggg 120
 gcgtaccact cgcttacgaa gggtcatgct gcacctcgac tgtcctaagt cctatgccac 180
 ccttacacat acagtgccat atggcacgtg acagacccta cgacgctcac actctg 236

<210> 4489
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-C5

<400> 4489

acggggttatc tcaactgtgtt caccttgtct catgggagaa ggagaatgtg tccagtgagg 60
 ctcttgaggc tgcccgattt gcttgcaata agtacatgac caagcatgca ggaaaggatg 120
 ccttcacact cagggtcagg gttcaaccgt tccatgtgct ccgtatcaac aagatgcttt 180
 cgtgtgccgg ggctgatagg ctccagactg gtatgagggg tgcttttggg aagccgcagg 240
 gagtctgtgc ccgtgttgcc attgggcagg tctctctttc tgtgcggtgc aagcccaaca 300
 atgccatcca tgccactgag gcccttcgtc gtgccaagtt caagtccct ggccgcaaaa 360
 agatcattga gagcaggaag ttgggct 387

<210> 4490
 <211> 80
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-C6

<400> 4490

gacgggttaa cgaaggtgtg tccagattgt ctcatgggac agggagaagg tgtcgagtca 60
 tgctcttgag gctgctcgta 80

<210> 4491
 <211> 225
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-059-Q1-E1-D1

<400> 4491

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 acgcgtcctc cgaattgatc aatactactg gcgagtggct gttgtcgttg ttgttgtaac 120
 ctgtaagtcc accattatga agctttcgct tgttttacgt gtctgccttg tctatatgtg 180

taaggctaca angaacgaaa tcaatgtaca tatgttacct ctatg

225

<210> 4492
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-D2

<400> 4492

ggatttggat ttatgcagta ctttgatccc aacgatgcgg cagacgcaaa atactacatg 60
gatggacagg tcattcttgg tagagaagtt gcagttgttt ttgcacagga gaacagacag 120
aagcctgctg agatgggaac tagagaaagt atcagaggtc ggtcttacga tcggcgggcac 180
tctccttccc caagggggcg gccatcttac cgcggccgaa gctactcagg gtctccatca 240
cctcgccccg caaggcggag gttcagagac gagtctccct cgcgctcccg ctgccccagc 300
ggatcgagga gtgcgagtcc attggatggg aagtacggca ggtcctcacg aagagagagg 360
tcgatttcgg 370

<210> 4493
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-D4

<400> 4493

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aactcattag tcacattgct tgcaaggctt atagtgatgt gcattaccga gagggcccag 120
agatacctcc ccgatagacg gagtgacaaa tcctaattctc gatctatgcc aactcaacaa 180
acaccattgg atacacctgt agagcatatt tataatcacc cagttatggt gtgacgtttg 240
atagcacaca aggtgttctt ccggtattcg ggagttgcat aatctcatag tcagaggaac 300
atgtataagt catgaagaaa gtagtagcaa taaaactgaa cgatcattat gctaagctaa 360
tggatgggtc ttgtccatca catcattatc taatgatgtg atcc 404

<210> 4494
<211> 383

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-D5
 <400> 4494

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 aatggccgtg tgggtgccac tgctgctgtg tactctgcag caatccttga gtaccttact 120
 gccgaggtcc ttgagctggc cggcaacgct agcaaggatc tcaaggtgaa gcgtatcacc 180
 cctcgccacc tgcagcttgc gatccgtgga gatgaggagc tggacaccct catcaagggc 240
 accatcgctg gtggtggtgt catccctcac atccacaagt cactcatcaa caagacctcc 300
 aaggagttaa tgatatgcaa taacgggtag ttgttggtgt ttgtatcccc gtgatccctt 360
 gttacgttgt gctacctgtt acg 383

<210> 4495
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-D7
 <400> 4495

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 gtcggcgctt gtcggtgggt cgccgtacat ggatgcgaca aagtgggtggg atgcagacta 120
 gcggagaaaa gattccggcg caccctacc tgggtgcgcca aatgtcggat atcgggttcc 180
 tgcaaaacc ttaaggttca aactctgggg tgcgcgcgaa gatcttctcc ctactgatcc 240
 acgcccacaa cctcgccgcg attctaagct aacaagatga acaacacaag gaacacgaga 300
 ttatatactg tttaggccac cattgtggtg taatacccta ctccagtgtg tgggtgtgtg 360
 attaactctt gggctgatga ggaacagtac aagggaaga acagcct 407

<210> 4496
 <211> 221
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-E1
 <400> 4496

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 gtttgtatca agtttttgtg gcacttgcta ccttgatttc aatggagata acggtgtagc 120
 acaaattcaa agcatctgta tatgtatgct atgcattctt atgcccttca tgcgggatgg 180
 atatttttga aatcaacaaa agagacagat atattatgtg t 221

<210> 4497
 <211> 328
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-E2
 <400> 4497

ccgggtcgac cggagcacia acaaaaccaa aaccaaggct taaccgcagt tccgcagttc 60
 gtgtgttgct tatattatat gttgctatta tattaccatt attaagtgag ggaggaattg 120
 attagtcca gtgtttgatt ttgttctgtt tgtcatggta cgaggaaaga tcaccaagta 180
 gataaggtct ctagtagcag tttggctgta cctaatacagt acccttattt cattccgact 240
 agtaagtaaa aacttgtttt tccctcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaagaaaaa aaaaagaaat tttattat 328

<210> 4498
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-F3
 <400> 4498

ggtcaagaaa tcccgggccg actatcacga tgaccggggt cttgtcgga atgatccgca 60
 tctccatact cagcgaaaat agccgaacga aggtgtagtg cagcggatga aggttaaaca 120
 tagcaaagat gtcataaac cgcaggacga tcgtaccccc gatgtcgcca tccacaaagc 180
 ccttgtcttc tggcaccttg gccacgaaaa ccgggtatgc cacatccttc tctctgagac 240
 gccgcttctc caaagaaaga aactgtcgt gcagactccg catagcaccg gttgcagcat 300
 tgagcatatt tgggtgtagc atcgccctac ccgccacatg caccctcttc gagatatact 360
 gcgggtgaagg tgaccggtca tgagcacgga tcgtactcgg tgccgggtgg ctcgcaacct 420

tcttagtctt tcctttgcgt gt

442

<210> 4499

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-F4

<400> 4499

gggtcgaccg gtaggcatac aaaaatagta aaaacttcca tatagagtat tgaataactaa 60

gagaagtttg atgcttgatg atttttttga ggtatggaga tggatgatatt agagtcacgc 120

tagttgagta gttgtgaatt tgagaaatac ttgtgttgaa gtttgtgatt cccgtagcat 180

gcacgtatgg tgaaccgtta tgtgacgtag tcggagcatg atttatttat tgattgtcct 240

ccttatgagt ggcggtcggg gatgagcgat ggtcttttcc taccaatcta tccccctagg 300

agcatgcacg taatactttg ctttgataac ttgtagattt ttgcaataag tatatgagtt 360

ctttatgact aatgttaagt ccatggatta tacgactct cacccttcca cctttg 416

<210> 4500

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-G2

<400> 4500

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gcccacctgt tggtcgggca tgtcgtggag gacgaacatc gggagctcgt cggcctgaag 120

atagtccggc gccgccggga ttggcatgag tgtgagagat cggaggtgct caaagacctg 180

tcatacggga tcagttcgcc gcatcttgaa atagttttgg aatgactttt ggtaaaagtc 240

tgctgtgccg gtagaccttc cgttttagg gctttagct gtatgccagg gcctaagat 300

tatgttatgc tggctctaaa tatagaacaa catgtgtttg tacgtggtat cttgtacctt 360

acttttgctt gatta 375

<210> 4501

<211> 384

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-G4
 <400> 4501
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 catgaatcgg aatttattac aatactctag gtgcttcact tatacctttt gagctagata 120
 gttttgccct agtgcttcac ttaaactctt ttagagcaca ttggtggttt aattttataa 180
 aaaaatattg atccctcatg cttcacttat attattttga aagtctttta gaacatcagg 240
 gtaatttgct ttggttgtga aattagtctt aatatgatag gcatccagga tgggtataat 300
 aaaaactttc atatacggtg cattgaatac tatgagaagt ttgattcctt atgattgttt 360
 tgagatacta atatgatgat atta 384

<210> 4502
 <211> 307
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-G5
 <400> 4502
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 gcgcttcgcc taagcaccgc tacattatta tccaggatta ttctggaggg ggaaccgcac 120
 acggttcaga gaacattgat caattgttgc gtcactgggg tgccccctg cctcgtata 180
 taaatgacca tgggggacgc cgccggttca cgaggagggc gcgccacggg ggaactccta 240
 ctcatactgc gactaagaat cttccctccc ttgttggcgt atgagacacg gaacgatgcg 300
 gggaatt 307

<210> 4503
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-059-Q1-E1-G8
 <400> 4503

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 ggcgcaggga actcctcggg cgattcgccg ctgctcctgc tgccgatgct ggacgatgac 120
 atctcccgctg aggtccagcg cctagatgct gatatggacc gattcatcag ggcccagagt 180
 gagcgcatga ggcagtctat attggagaaa gttcaggcaa agcagtttga agcgctggcc 240
 tctgttgaag acaagatcct ccgaaaaata cgcgataaag agtcagaagt gcagaacatc 300
 aacaaaagga acctggaact cgaggaccag attaaacaaa tggcagggga agttgggtgcg 360
 tggcagcaac gagctaagta caacgagagc atgatcagcg cact 404

<210> 4504
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-H10
 <400> 4504

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 aatgggtgct atcatcggct gtacctaat gatgttctga tagcccttta gctcgcatag 120
 aaaatttcac gacgcccttg taatcaaag tagtatcagt agtatttttc aatcaaacgc 180
 attaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggggcc cccaaagggt tacaagtta 360
 ttttcgcgga aaagagttgt aaaaccctt caaaggggcc cccaaattta attac 415

<210> 4505
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-H12
 <400> 4505

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 ttgtcgagat ccgatgaatt gtgggtttat gatcaagatt atctatgaac aatatttgat 120
 tcttctctgg attcttttat gcatgattta aatatctttg caagtctctt cgaattatcg 180

gttttagtttg gcctagtaga ttgatctttc ttgcaatggg agaagtgctt agctttgggt 240
tcaatcttgc ggtgctcgat cccagtgaca gaaaggggaa cgacatgtat tgtattgttg 300
ccatcgagga taaaagatgg ggtttatatt atatttcttg agtttatccc tcgacatcat 360
gtcatcttgc ctaatgtgtt actctgttct tatgaactta atactctaga tgcacctgg 420
at 422

<210> 4506
<211> 380
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-059-Q1-E1-H4

<400> 4506
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tcacaaaacc gtaatggcca acctggcttc caagccaaag gaaatcccaa ccgggaaacg 120
gaacaaatcc tcaatcctgg aacctccaaa gccaaaaatt ctggcaaaag ggtaaattcc 180
ggctgtccgg aaaccccccta atcaaggact ccctcaccca tagcatgcac ttatggtgaa 240
ccgttatgtg atgaagtcgg agcatgattt atttattgat cgtcttcctt atgagtggcg 300
gtcggggacg agcgatggtc ttttctacc aatctatccc cctangagca tgcgtgtagt 360
actttgtttc gataactaat 380

<210> 4507
<211> 333
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-059-Q1-E1-H8

<400> 4507
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cggagccccg aacggactcc agattagccc tcccagagagg ttttagggct tggcgggcgt 120
tccgcatcgt aaaacgtgat gatttcttct ctctgatttt ttctccctga aactcaatat 180
atggaagtgg agttggagtc ggagaggcaa cagggggccc acgaggtagg ggcacgcct 240
aagggggcag gcgcaccccc caccctcgtg gcaaggtggt ggccccctgg ccttcatctt 300

333

tgttaaaaac	attgatgtcg	gcgtctgccg	catcaaactg	cggttcctaa	tgggcaaatt	60
cgcaattcgg	gtagcaacc	ggagcttcaa	tcacctgcac	ataaaggcat	tatgggttatt	120
acctgggaat	atgatcctct	gttcgtcgtc	gtttccgacg	ataaccagag	tctcaggggc	180
tactatctac	acagggcacā	cctagcatgt	gcaggactat	catatatctt	tttacgtacc	240
tcaaagcctg	tcagtagact	cataaaagct	tcatgcaatc	tgctttcggc	ggacgatatt	300
ctctccatca	ccgtattcat	cagcacacgg	tgttcatctg	agatggccgc	tcgccccacc	360
aactccctca	gaacatccga	tcgcacacta	tacggtgccg	gactcttttg		410

ttggctgac	aaaaaccaca	gctaccaccc	gcattaccgg	gtgacggacc	tgaacgaaaa	60
ggactttctgg	cgcatgttctg	acgcgtcgca	ctacgagcac	tgccggcaga	aatacggcgc	120
cgtgggcacc	ttcatgagcg	tctactacaa	gagcaagaag	gggcgcaagt	ccgagaagga	180
ggtgcaggag	gccgaggccg	ccatcctcga	gcctgcctac	gccgacgagg	cctaggcgtg	240
ttcgtcgtcc	atcgccgtcg	tgctcgctgt	cggccgcctg	tgtctcgccg	gtttcggttt	300
cggttttcttc	ggtcgtcgga	actctggatt	aattggttcc	cttttgcttg	gttgcttatt	360
aataagtaga	acttgatcga	tcgtgtagcg	ttga			394

$\langle 210 \rangle$	4510
$\langle 211 \rangle$	373

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A2
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 tcccacaccg tcagctacag cgacatctac aggtgcagta ccccgccccc gccccgtctc 120
 agtctcatca tgggtgctgta taaattcagt ccaccttgctc actgctcatc gatcgacctg 180
 cttggcgctcg cgggtacagtt agctcaccat ccgttccgta tcagagaatg ctgccatgcg 240
 tacgttcaca gtgattcctt gccgaacggt tcgattgcta tgcacctcag aactaactct 300
 gcggttggta ccctcgacct gtaattagtc cattatatat gtatatgttg catttccaga 360
 gccaaaatat tgt 373

<210> 4511
 <211> 404
 <212> DNA
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 <223> Clone ID: LIB103-060-Q1-E1-A3
 <400> 4511
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 ccgaaaaaac tctcaaaata atataagtga agcatgagag atcaacaatt tctacaaaat 180
 taagccaccg ccgtgctcta aaagatataa gtgaagcact agagcaaac tatctagctc 240
 aaaagatata agtgaagcac atagagtatt ctaataaatt ccaatcaagt gggtttctcc 300
 caaaaagtgt gtacaacaag gatgattgtg gtaatctaaa aaagcaaaga ctaatatcat 360
 acaagattct ccaagcaaaa cacatatcat gtggcgaata aaaa 404

<210> 4512
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A4
 <400> 4512

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 tgttacgggt gatgccacgt gtcggtcacc cttgaggaaa gcacttttgt gacgcgcgat 180
 ttatcgatcat ggaagtggac actttcatga tgataatttt ggtaatgtca tggaacactt 240
 ctacgacagc acaggtatga ctatcttgat tctgtcataa atttgtaatg gatgtacatg 300
 catgacaaaa aagcgacctt ctgtgacaaa gacgtatcat cacggaagtg tattttttta 360
 gtgatatggg ggacaatata gagtacatgt gtctatcacg agattattcc aatgaatat 419

<210> 4513
 <211> 326
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A5
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 tcacgtgcac ccggacctag gcatctcctc taacgccatg tccatcatga actccttcat 180
 caacgacatc ttcgagaagc tcgccgggga gtcggccaag ctggcgccgt acagctagaa 240
 gccaccatc acgtcccggg agatccagac ctccgtccgc ctcgctctcc ctgtggagct 300
 cgccaagcac gccgtctccg atggca 326

<210> 4514
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A6
 <400> 4514

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 tccattgttg ctaccattg acaattatta ttgtctgttg ctccatcact ggaattggtc 180
 tgggtgatgt gagatttggt ctatttgctg gaaattcacc ggcagttaa gttatgtgaa 240

gctcaaattg tagatttggg catggaagga tagttgataa gcacaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa agaataaaaa aaaaaaaaaa aaaagaaata aa 342

<210> 4515
 <211> 473
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A7
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 atcgtcgcgg agtttagcgg aagccctgcg ccggtagagc atcatcatag tcaccacgcc 180
 gtcgtgctaa cggaactcat ccccgaaact ttgctggatc ggagcccggg gatagtcatc 240
 gagctgaacg tgtgtgaac tcagaggtgt cgtacgttcg gtacttggat cggtcggatc 300
 gtgaagacgt acgactacat caaccgcgtt gtcataacgc ttccgcttac ggtctacgat 360
 ggtacttggg ccacactctc tcctctcgtt gctatgccat caccatgatc ttgcgtgtac 420
 gtaggaaatt ttttgagatt actacgtccc catcaggaat gttcttttcg cat 473

<210> 4516
 <211> 497
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A8
 <400> 4516

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 tgaacattgt atctggatct catttaatac gagatggcta ctcatctaaa tccgagaata 180
 atggttggtc tatttatatg agagatatgt tttatgggtc tgccccgatg gtcaatgggt 240
 tattcttaat gaatctcgaa cgtgatgtta cacatattca taatttgaat accaaaagat 300
 gtaaagttga taacgatagt cccacatact tgtggcactg ccgccttggt cacattgggt 360
 tcaagcgcat gaagaaactc catgctgatg gactttttaga gtctctcgat tatgaatcat 420

ttgacacatg cgaaccatgc ctcatgggca atatgaccaa gactccgttc tccagaacaa 480
 tggagcgagc aaccaac 497

<210> 4517
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A9
 <400> 4517

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 aggacgagga gattgaggat gacgatgctg aggatggtga ggatcctgtc aaggcgcaat 180
 cctcatcaaa gaggaagagg tctggtgggg aggatgaaga tgatgacgac ggtgatgatg 240
 atggtgatga tgatgagaag cctccatcaa agcgatagtc aatttggttcg tgctgatctg 300
 tgatcttctc tgcttgggcc aagaaggaaa ataatcctca tggagaggat tgttggtaaa 360
 tgctgtagct ttaggacatc tgtggtaggt gtagcagctc aaac 404

<210> 4518
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-B1
 <400> 4518

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 gtaagtgcct atttggttg tctttggctt gctgcccttc aagctgcagc cgcaatggcc 180
 cgcagccttg ggcatgatga ctatgctgac aggtgcatgg tgaaatttgc aaaggctaag 240
 cacgtgtttg aagccaagtt atggaatggg tcatatttca attatgatag tggaacaagt 300
 tacagtagcc actccatcca ggcagatcaa ttgggcggac aatgggacac tgcatcatct 360
 gggtttgcac ctctgtttga tgaggacaga ataaaatgca cgcttc 406

<210> 4519
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B11

<400> 4519

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tategaaaaa gtctatcggt ccggtgccat aaaaatcaac aacttcgagg gcacaaatcc 120
gaaggtggta aacgggtcaaa gaatcaaaca ttatatctta ggtaatccta taaatgttga 180
aaccaatatt attgaaaccg taaccccgag gaatacataa gggacacttt ccagaacggt 240
tcagactccg aaaaggaata agtatgtggt acggttaagta aaccgactcc aaaacaattt 300
ttaaggcaat atttctccgt tttggaatat ttagaaaaat agaaagataa gtatcagtcc 360
gggaaggaca cgagggcccc acaagggt 388
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<210> 4520
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B12

<400> 4520

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ttaaattgga acctggggtc ccaagaccaa cccgggaagg aaaccccggg ccggcgggctt 180
aacgggggta acaaaacccc cttcctaacc acctgtcac aaggtcagga taacctttgc 240
ttaactctgt cgtaaaccat gcaaactaag ccttgccctaa actgtcatag acaacactaa 300
ccaacgaagc gatgggctag ctgatcaaag ccgagcccag tcggagtcgg atcaagagtg 360
tgctgggaac gcaaaggccg cctgcgcttg ccaccgaaaa ggacaacagc gagatacctt 420
tgtgt 425
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<210> 4521
 <211> 112
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B3

<400> 4521

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aaccgttttaa ataagtgtca agttgaaatt caatgatgta tgcaactgaa gg 112

<210> 4522

<211> 358

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B4

<400> 4522

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gggcaccctg aagaaaccag tggacttgtc cggaaccct ggagaaacca gtggacttgc 180
ccagtggatc cgggagtacc tgtgtgatca ccctatggac tgccaaccaa gatcaaaggg 240
attcatcaat ttttcatgac tagaagctta cgtgcacagc cacaagctat tatgggctct 300
ggcttagttg agtaagttgt gtgacctctt acggtggttag actagcagat gtagttat 358

<210> 4523

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B5

<400> 4523

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ccttttgtgc ctattgtttg aggcaaaagt ctcgaagact gtcagcactg tatggttgtt 120
gtcttccatg ggatgttgct ctgcggtatt tttgatgagg agatccttgc tgctcttggc 180
taccgcgagg agtatccaac atgctctaag gctgtgggtt cgtatggtat ccggtattgt 240
gtgtatcttg catggcctat cgagccatcc ctgtaggacg gttccgtgcc ctgtaatggg 300
ctttgatttt ttggttactg gatcggggcga aaaacaaggg tgcaaccttt ttgtccggac 360
gaggggt 367

<210> 4524
<211> 211
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B7

<400> 4524

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ctcttcacga tcctatctta atttctcgtg gattcaagtt ccaatctctt ctatgggtgtc 180
tgcgaaatgt tgttcaatgc cccgtcgttt t 211

<210> 4525
<211> 209
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B8

<400> 4525

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tgctggcaca cctagttag ggaagaagat cactttcggg gatgactgag ctccgtgact 120
ccgcttgaaa tcgcgagaa actcgaaccc acccctagtg aaatgtcaag tatttccttt 180
ttgcctggag acgcgtactt gctgttttt 209

<210> 4526
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B9

<400> 4526

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acgtcaataa gcactggacc tgtagatga gaaggagat atggctttgg ctcatattggc 180
ggtttaccaa caagaccgt agcgttatca caaccgtcgg gttaaaacaa taacctttca 240

agaaggtgac ttaatgcccc ggctcatcca ggatcagacc gatatgcaca agttatcccc 300
accttgggaa gggccctttg tggtcagcaa gaatctgcac aatggatcat actacctcat 360
tgacattccg agaagactca cgcacttctg agg 393

<210> 4527
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-C1

<400> 4527

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catcacttat ttcaatccaa aagtcaattt caaccaaatt ggaaggatgg ccggaatttc 180
gaaaggtata aggtacaatc caacgggtgcc gaattggaaa aatttggttaa tggcccaaaa 240
gaaaat 246

<210> 4528
<211> 409
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-060-Q1-E1-C10

<400> 4528

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cccccttcac caggtcgtcg gccgctctca cccggtacta caggacctgg taattgcata 120
ngcgggggtgg tggctctccgc acatgcttgt tgatgtgtgg ttattggtgt gctcttggcc 180
ggctccagac gaataagatt cttcatccat agcagcacc aacccttgca gttccaatc 240
cgcgggcggg tctcgtcgtc ctctcccaca tgctgtactg gaggaggcaa atcctcgtgc 300
cccgattcca cactggacaa gctaaccctg aagtgccag cagggatcgg ctggttgtgg 360
aacgtggggt gcaaggggtc cattatcate ncctttccta cgtccatct 409

<210> 4529

<211> 349
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-C11

 <400> 4529

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 ccttgcaaaa ctatttcggc tctctgtctg gcctctgcga cttggtagat tctcatggac 180
 tccatggtgt tggatgatgt ggaggagga ggggtgcgtgt tagctaagtt agtccactcc 240
 ccttgttcgt gttttgtaag ctaattagta gtatcggtag taccagtata tggaactttc 300
 aatcggttca cgggcgagtt gtgtgctaca aaaaaaaag agagagaag 349

<210> 4530
 <211> 299
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-C2

 <400> 4530

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 tagttcaggg aagaagataa ctttcggtga tgactgagct cggtgactcc gcttgaaatc 180
 ggcagaaaac tcgaaccac ccctagtga atgtcgaata tttcctttt gcctggagac 240
 tcgtacttgc tgtttttaat attatcttat tattattatt attgtggacc gtggtggtt 299

<210> 4531
 <211> 338
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-C3

 <400> 4531

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agggcttgga aacttccaaa atcaacacct ccaaggtgct caaccaggtg caccccaact 180
 tggcaatctc ctcaaaggca atttcaacca tgaatccctt catcaacaac atcttcaaaa 240
 acctcgccgg caattcgccc aacctggcaa ggtacaacag gaaccccacc atcacttccc 300
 ggaagatcaa gacttccttc ggcctcttct tccccggc 338

<210> 4532
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-C4
 <400> 4532

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 catggcaatt tgcttttagg cataataaga agctttcata taagtgcatt gaataactaag 180
 aaaagtttga tgcttgatga ttgttttgag atatggagat agtgatatca aagttgtgct 240
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 cacatatggg aaacattgtg taacaaattt gaaacatgag gtgttatttg gttgtcttcc 360
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<210> 4533
 <211> 495
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-C6
 <400> 4533

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 agaaagaata tatgcaatca aaacctgcta gagatgcagc agcaaaggct aagatggaag 180
 ccgaagcatc cgcagcaatt gaatacccggt ttcacatgga taacgagtgg aacattagtg 240
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 cagaaggcct tgtccgtgaa cttccagatg aagataccta cgtggaacca cctgctgcac 360

cagccagctg tgggtgccatc gatgacgatc tcgaggagct ccagcggcaa ctcgacgccc 420
 taaactcatc ttgacctcgc gcagatctgg ctcaaacagt gcattggaaa accaaaccag 480
 atgccattgt ttgcg 495

<210> 4534
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-C9
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 tggagatcac ctgggctgaa ttgagatcaa cggttgaacc atcctttgct gagagatcaa 180
 taatatatca cacggattac ctccacacag gcaacaatgg taacatcttc ggcattcagt 240
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<210> 4535
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-D10
 <400> 4535

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 aatccgtgaa tccaggggtgg actccaagta cctccgcggc tactctcttc cactgtaata 180
 agaagtcatt tgcaacgacg acccaagaag ggtcacttgg ttttggttga gctgagcaga 240
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 cccatgtatt gcatcgacaa gcagaataag tacatgcctc ctttt 405

<210> 4536
 <211> 361
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-D12

 <400> 4536

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 gtgttatctc gattatgtgc cgtgctggca tttggatctt aatcttaatc cgttcgtctg 180
 gcaccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 attaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 t 361

<210> 453
 <211> 244
 <212> DNA
 <213> Tritic.

 <223> Clone ID: LIB103-060-Q1-E1-D2

 <400> 4537

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 gattcttggt ctgccaggg catccccact cacagatgtg atggtgtgat attgataatc 180
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 ccgc 244

<210> 4538
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-D3

 <400> 4538

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 cccattatgt tacaatggag aggaatgagc tgcaggatga gaacgatgtg ctccgcaacg 180
 aaatactgga gctacagaat gaactggcga cgcgtcctgc aggcaaccca ggttgggggc 240
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 agccgagcaa catcgcaagc gcagtattcc cctttgcagc agcactgcaa cagacaacca 360
 tcttgaaca accttatgca ccaccaacac caccacggg 399

<210> 4539
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-D4
 <400> 4539

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 atatgttgct gggtacagat agtttctcaa aagagtattc agagataaat gaccagtcct 180
 atccccccag aggtgtacgc tctaacttgg taggggtata ttgctcatat caatcatatg 240
 gtgtcttgca ttgctgtgcc atcttcttag tttagacatg ctttgtgtga atgctacttg 300
 tttagtttct atattatata tgtgaattat gcaatgccat cttgttttagc tgggcaacat 360
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<210> 4540
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-D5
 <400> 4540

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tgtgttatct cgattatgtg cegtgtctggc atttggatct taatcttaat ccgttcgtct 180
 ggcaaaaaag aaaaaggaaa agcaaaaaaa aagcaaatga aaaaagaaga aaaaagaaaa 240
 aaaggattaa cacaccataa aaaacaaaat tgaccggaaa aaaaaaacgg gccgccc aaa 300
 gggttcaaac tttag 315

<210> 4541
 <211> 506
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4541

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 ttatatctat ttagagagat gacaggaact ggatcattcac atggtttagtc ataaaatcct 180
 acataaactt gtagatcgct gaatatgata tgtttgattc cttgcaatag ttttgcgata 240
 taaagatagt gatattagag tcatgctagt gggtagttat ggattagat aaataactgt 300
 gttgagggtt gtgattcnog tagcatgcac gtatggtgaa ccgttatgtg atgaactcgg 360
 agcctgattt attcattgat tgtcttcctt atgagtggcc gtcggggacg agcaatggtc 420
 ttttctacc aatctatccc cctaagagct tgccgctagt actttgtttc gatgtctaata 480
 agatttttgc aataagtgtg tgagtt 506

<210> 4542
 <211> 479
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4542

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 gggccggcgc aaaaccgaca gcagcgagct gcaggtgcag gtcgacgaca agccatagcc 120
 atggaatgaa tgccgagcct ctacgattc attcattcac tcaccgtgtt atcacgaagc 180

atcataatac gtcacgcca atgatggagc tggctgctac tatttttgta gattatTTTT 240
 cttataatTT tggggagatt ggcaattgTT ccatctgtgt agattcgatc ccaagctata 300
 ggctagatcc agtcagtcca aataagtga gagtgcggtc gttgcttggT agcccccatc 360
 cacacccctc ctggagttgc tgaaaggTTg tacatgtccg gattgagagg ggttgttggc 420
 cccgacatga tgataatgag aaccagtagc aaatacaana acggaaacgg ccccgtaac 479

<210> 4543
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-E12
 <400> 4543

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 tgatgattgt tttgagatat gaagatggTg atattagagt catgctagtt gattagttgt 120
 gaatttgaga aatacttTgT ttgaaattTg tgattcccat agcatgcacg tatggTgaac 180
 cgttatgtga cgaagtcgga gcatgattta tttattgagt gtcttcctta tgagtggcgg 240
 tcggggatga gcgatggTat tttcctacca atttatatcc ctaggagcat gcgcgtagta 300
 ctttgtttcg ataactaata gatttttgca ataagtatgt gagttcttta tgactaatgt 360
 taagtccatg gattatacgc actctcacc ttccaccatt gctaacctc 409

<210> 4544
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-E2
 <400> 4544

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 aaaattgtca agaagctTgg agctcgTggT gtcatggaag tctatccata agtttTgtgat 120
 gcaaattgtTg tgatggTgac cgTttggTat aaataaagta cgtagTggTg tgctataaga 180
 aataaataag ggagtctggT gcctTgcttt ttaatggaaa acacaatgga actcaaatta 240
 gtagttcagc ccgtgcctTg tcacaacata accggagcgt gtattttaaT tagttttgag 300

aagtattgag tcactcagtg tgtgtctgtg tacacggat gtctgtatgc tccaacatgc 360
tgaaatatca agtttatatt atgtt 385

<210> 4545
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E3

<400> 4545

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tgtttaaagg cgaaaagata aataccacgg agaaacagtt aattgctcaa ggtggctttg 120
aaacccccag aaaatgcatc cataacaatt gacggtgtga acttggcccc cgaatttggg 180
gcggtaaagg ataaaatcag gcagtttcca aaaactttca ggattggccc atggggtggg 240
gcaaccggga aaccgttgac aaatg 265

<210> 4546
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E4

<400> 4546

ggtcgaccgg ggcacataac tcagtgcgc ttatatcgat cccccctata tgtacccatc 60
catgcaatgt gtttatgcag catcaagtta ccaaccaagt tcagaagatt aagaaacaag 120
cttcttgagg tccatttagc cgcctgttcg atcaacaatg agtccatgg acgtcacagg 180
caccgaaggt ctgccgttg attcgtggca gaagtcgtgg ccagaggtgg tgggcaagtc 240
cataaaggag gccagggaga tcattctcaa agacaagccc gacgccgaca tcgtcgtgct 300
gccagccggg tcgccgtga ccccgactt gaggcccaac cgcgtgcgca tcttcgtcga 360
taccgtcgct gacacaccct tcactggcta gctct 395

<210> 4547
<211> 483
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-060-Q1-E1-E7

<400> 4547

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gccttgctga cgatttgaaa accctagaga gtaatagtag caagcctcgc acttcggaaa 120
ctctatcgtg aacaaacaat ggcatacata agcactcaag cataagatgc aagggtaaaa 180
ctcaaaagaa aagatccaaa ctgaacgttc aactgaagag ctttgatttg caaaaagaat 240
caatcgaatc ggacctacga acacaaactg cgatcaaacg aagttcaaat tcaaactctgc 300
ttgaaaccaa attttaattt gttaaaccac tgttcaagtt gattatctgg aaagagggta 360
acaagacgaa gattttggcg ttggtttcac tggatttgga cgaacgagca aaaagtagcg 420
agggtttgaa gatcanggac taatctgtga tagaagtatt cgtggatagg tccctgnccg 480
ctc 483

<210> 4548

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E8

<400> 4548

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agtaggagag gcgatttttt ccccttcccc gttcgatcta gttcgccggc ggccggctcgc 120
tggtttcccc cctctgccg gccgcttcgg cggcgggagg gtgggggaaac ctcggttccc 180
gtctgtacat agctaggatg gagtgggtgg ttcgccggca gcgccgtgga gaggaaggcg 240
ctgtcgggtt ggtggtttgt ggcggcgggt atcttctccg gtggcggggg tctgcggaat 300
ccgaccactt cccgcctcc ttccctggtgc tcgtaactcg gcggagttgc cgtgcgcctt 360
cttcccgtgc cggagtccgt aggcggcggc tccggttggt gaaagtttg 409

<210> 4549

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E9

<400> 4549

gggcaaaggc gcacgtgcag aagggttcca agggcccaaa gattggcggc ggcgggcgga 60
agcgttgaaa gtgcgttgaa agtcgattac gccaatagac atagagttgt gctgcctagc 120
cttgtttcct atcctactat catagacctt tgtcaagtta ttaccccgcc ctcttgaatt 180
tgcaccttat ctgtgaggct gaatggtgtt aacgttttgg attgtctcga tgagtttatt 240
tataatgaat ggtacttatg ttggttccaa aaaaaaaaaa aataaaaaaa aaaaaagga 299

<210> 4550

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-F10

<400> 4550

ccaaggaaac aaaggccccg gccttggaac cccccccct cctcctccgg cccccggcgt 60
tggcggaact aacaaccacg ccaaccaaca accccaacac caccaccacc agcaacatga 120
agggaactac ccaaattgtt aaatttgcta taagtttcat cctggagggtg caagggcctg 180
ttggcatcgg tatgatgatg aacatgaaga gaagaagaag gccaacctcg tcaccaactc 240
ctacgggatt gatacaaatt ggtacgcaga ttctggagct accgagcaca taacggggga 300
actagacaaa ttgacaatgc gagaaagata ccacggaggt gacaaaaaag caatccaatt 360
ccccaccagc cccctcgac ctccggcgga atcaccgcac ctctccc 407

<210> 4551

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-F12

<400> 4551

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acaagcacgg tatccccctt gtgaaaagcg ttaccggaag caagatcctc cgcacacctc 120
aggctcatgg cctggcgccg gaaatcccag aggatctgta ctttttgatt aagaaggctg 180
tggccattag gaagcatctt gagaggaaca ggaaggacaa ggactccaaa ttcaggctca 240

aactaaatgg accagaagca ttgagaagc taattatcac gtctacaagt acaa 414

<210> 4554
 <211> 501
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-060-Q1-E1-F7
 <400> 4554

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 agcgtagggt catatcgatg ccagacaatt tgcttgagtg atcacagtac tgggtactccc 120
 tatagtacct actacagtac tatgccctag cttgctagag tagattagta gagtaggact 180
 ctgctccact actagcaccg gaggagtagt atattctaata ctaaaatagt taaaaacttc 240
 gatgcccgat catggaacga ctatgaaccg tgctcaaaga ccgtgtctac gtgggtgtttg 300
 gacttatatg caaaaaatag caagatgccg tgcattgcac ggcacaccat catcaccaac 360
 tcggtttttt ctctactcct actcctatag aagacttagt tgggtgatgat ggggggtgagg 420
 aggcgtgttc agccggggcg gcagcggacg gcgcagcact attcgatttg ttacaaaana 480
 gtacttgtag agatagatac a 501

<210> 4555
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-F8
 <400> 4555

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 gcgcctcatc ttgcgggga agctgcttgg cgacggccgc accctggccg actacaacgt 120
 ccagagggag tccacgcttc acctcgtgct gggcctcgcc ggcggggaca agggctcctg 180
 ctaccgccc aagatggagc ctaacctgct cgccctcgcg ctcaagtaca ggcagcacag 240
 gcttggtttgc cgcaagtgct atgcacgcct gccctcagg tctgccaact gccgcaagaa 300
 gaagtgcggc cacagcaatg agatcaggcc caaggagaag ctgcgctacc actgaagcat 360
 tggaaaacttg accctgggag acatgccata gctggattaa ctgggagttc 410

<210> 4556
 <211> 422
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-060-Q1-E1-G10

<400> 4556
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 gctttgtggc aaattgtttg ggaaccggtt tatgcattgc aattgcaacc ctgagctgct 120
 gcaaagtgtt gaactgatga ggtttatgca ttttgaactt aatagtaatg ctatttgcac 180
 gccttcaa at ttggaagcaa atgtttcagc tgtgccaaaa aaaaaaaaaa aaacaacaaa 240
 aaaaaaaaaa tgaaacataa acaaaaaaaaa aaaaaacaaa ccatacaaat aaaaacccaa 300
 agacaaaaaa aagagcacat ccaacaaaaa caaaagcgac acgggaaaaa caagataaaa 360
 acttgcttca aaaggcccc aaaaatttcc ccataactcc aaaaaaaaaa aaacggcccc 420
 cc 422

<210> 4557
 <211> 406
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB103-060-Q1-E1-G11

<400> 4557
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 acgctgaaaa ctcaaggatg gccgatttgc aagctcacat caatataaag gcggagcgtc 120
 tgaaaacacg ggcttggcgt ctaaacttgc agcagaatgc ttccaacgca gttcatgagc 180
 ggaggtacct aatgcggctt gaaactacgt cggtatttcc ccaaagagga agggatgatg 240
 cagtacagct atggtaggta tttccctcag ttatgaaacc aaggtatcaa tccggtagga 300
 gaaccaagca acactatgta cacagtacct atgcacaaag aacaaaccct tgcaacccaa 360
 catgtaaggc atcaatctgg tangagaacc aagcaacact aaaccg 406

<210> 4558

<211> 159
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G2

 <400> 4558

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 ccaaaccagg gattaattcc gggcgggaac aataaggcgt tgggaattcc cccgaagggt 120
 acctaatggc atccaatcaa ctccccgggg cttcgaacc 159

<210> 4559
 <211> 132
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G3

 <400> 4559

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 ggcaccattt taattgagga attggagcca attggcgcaa accgttttgc catccagtta 120
 ttggggggcca cc 132

<210> 4560
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G5

 <400> 4560

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 tagagcgggtg cccatagagg tacgtgccat acggcctatc ccagaggagt cccgccactg 120
 gttgttaaaa ccaatcacct tcgaccatca ggattactct agaagtatcc ggtatgcagg 180
 atggactgcc ttgatattag atctgataat tgacggactc caatttacac aagtcctaata 240
 ggacggcggc agtgatctaa acctgctata ccaggacaca agccgcaaaa tggggataga 300
 cccaacaaaa attcaccata gcaacacttc ctttcaagggt gtaatgccag gcccatatgc 360
 ccattgtacg ggctctctac tgctagaagt tgtg 394

<210> 4561
 <211> 513
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-060-Q1-E1-G7

 <400> 4561

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aaaagaagag gaagagcatt cacacggggt catatacaca agatgaggac aagtttattt  120
gccaagcttg atggagatta gccaagatcc gaggaccggc gcgcaacaaa agggcattgt  180
tttttggacg agagtccaca gaacattcca tgaaaggaag atgtttaagc cctaccaaatt  240
tacaagcaac cgtggcatcg gctctattca aaaaagatgg ttgttcatcc aacaagagtg  300
caacaagtat tgcgctgcat ttgagagcgt tgaagcacgt cncgtgagtg gtctcggcgt  360
tggggacatg gtatgctctc ctctttccag ccctttcctt gctacggcca tgagacttcg  420
gccgtgtata tgtttgcatg ttcacttgtt gttgatcatc tgggtgtaggc atttcaatct  480
ttggaggcat tcaaggcccg acacaatgac aag                                513
  
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<210> 4562
 <211> 488
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G8

 <400> 4562

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agcgatggtc ttttcctacc aatctatccc cctaggagca tgcgcatagt actttgtttc  120
aataactaat agatttttgc aataagtatg tgagttcttt atgactaatg ttgagtccat  180
ggattataca cactctcacc catccacctt tgctagcctc tctagtacca cgcaactttc  240
gccggtacca taaaccacc atataccttc ctcaaacag ccaccatacc tacctattat  300
ggattttcca tagccattcc gagatatatt gccatgcagc tttccaccgt tccatttatt  360
atgacacggt ttttcattgt catattgctt agcatgatca tgtagttgac attgtatttg  420
ttgcaaagcc accggtcata attctttcat acatgtcact catgcatcgt tgcacatccc  480
  
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ggtacacg

488

<210> 4563
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H11

<400> 4563

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catagatagc agaaggctca aggtgcccaag gagaagaacc tgatgctgga gggataaaga 180
attcctcctg ggtctgatga caggggaatg cagtaaacac cagaagcatc aaaactatga 240
tctggaacag tatcctgaat aaactatttt ctggattatg aatgaattct gaagcatggg 300
gctataagtg aattatgtaa catggatttg taactatggg ggatgttaag ttaacgttct 360
atcagtgcac cgtgaatgag tgctcaaaaa aaaattaaaa aaattattca aaaa 414

<210> 4564
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H12

<400> 4564

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tgggaaatgc acccctgat gaaattggac caccacccc tgctgaacct ggaaatgctg 120
cttcaactgg attcaaaaaa ccgcttgga ggccgaaaaa ggagaaacaa cctgcatcaa 180
tctctgctga aactggagat gcaaccctg ctgggactgg tgatgctgaa actggagatg 240
caaccctgc tgggactggg gatgctgaaa ctggagatgt aaccctact gaaactggag 300
cagcaacgcc tgctgaaggg ggaaatgctg catcgacagg gatcaagaga ccgcttgga 360
ggcctagaaa ggtgaagaag tttgggaggc caagaaa 397

<210> 4565
<211> 325

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H2

<400> 4565

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attgtcaaaa aaagccacaa aaaagttaga tctattcatc cttttgtcaa agccagtctg 180
agcctttgca attttctttt cattgtttgc attattgaat tatcggttgc atcgctcgtg 240
cgagttgctg gtcttagtgt ctagttcgtt tagagtttcg agttctgttc acattagtca 300
tgtcgccgct gcatcgttat ccctc 325

<210> 4566
<211> 193
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H3

<400> 4566

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gcccagggag ctaggcaagc caacctacaa cctaaacaat tgttcaatgg gaactccaat 120
aaccaactgg gcggaacctt gccaaaggccg aaggtaaaat ccggcccctc ctccctctcc 180
tccgggggtt ccg 193

<210> 4567
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H4

<400> 4567

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caggatgaat ttggtcccc aacaggagag gtaggatcca acttctttca agggaacaca 120
ggctcaagag gttctccac cacaggacca caggctaaaa gcaagggaca agcttcaaga 180
ggagattgat gcatttgaag aagctcccaa agccttggtc aatttggttc ccaagactac 240

atcaagttct acttcatcat gtacgactac aactccaggg atttccatca aaagggg 297

<210> 4568

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H6

<400> 4568

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cgaaggccga gcagattatc tgtccggccc cattgccaga ggacccaccg gacgccctct 120

taacggggct gctggctccg gcacccacg tgggtctgga aaataaggcc aagaagaagg 180

ccacgggcac tcggaagagt tcccgttttc aggtgttatc ggatgatgac tccaaggctg 240

actcctctca caaaggtgag gaggagaaga agaaagcctc tccccacgagc gggggaggga 300

agaaaaggaa gcctcccaa cgagggaggc cgaagggtcc aagaaggga aaactctttc 360

cccggactgc tcctgcaacg ccaac 385

<210> 4569

<211> 382

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-060-Q1-E1-H7

<400> 4569

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agttgctgca aacttctccg gtgcatccaa accctgtgat atgatacgt atttcacaca 120

taaacctcct tatatcttcc tcaaaacagc caccatacct acctattatg gcatttcata 180

gccattccga gatataattgc catgcaactt ttcaccgttc tgttcatcat gacatacgtt 240

acttttgtca tattgccatt gcatgatent gtagttgaca taatatttgt ggcaanagca 300

caatgcatta tttttcatac atgtcactct tgattcattg caccatcccgt gtgcaccgcc 360

ggaggcattc atatagagtc at 382

<210> 4570

<211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-H9

 <400> 4570

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caggggggat tttccaaggg gaacgaggac gggccaaacc tcaactttga agttgaagga  180
ctcaagcaac acaagaagca taggcctggc gtttctcctg gtgacaggtc tgggtgtctt  240
gctaagcgag gcaaacaagg aaagaaccat aggtcaaagg attccaagtt tgggcatggc  300
ggccgcaaag ggatgaagaa gcaaaacact gctgagacga cgaatgactt cagaggggtt  360
aacaaccaga agggcgagtc aagaaacaag aagaggaaga tgttttgata cgggtgttg   418
  
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<210> 4571
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-A1

 <400> 4571

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tgtggtggtg tagaattcta aagctgaatc gctgtgcctt gtanaagctt gacattgcca  180
aatggcacca agaaaatttg gcataattat taggcgtgaa tgatgatggg gataaccatc  240
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<210> 4572
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-A3

 <400> 4572

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 aaaagttgtc aaagaatcaa ttcaaccac tgcgaaaagc gaccgagaga gagaggaacc 180
 ggaagcaaga agatggggca ggcgctgcgc aggctcttcg actccttctt ctccaccaag 240
 gagatgaggg ttgtgatgct tggtttgat tcagctggca aaacaacaat cttgtatagg 300
 ctgcacctgg gggaggttct tcaaactgtg cctacagtag gttttaatgt cgaaaagggt 360
 cagtacanga atgtggcatt tactgtgtgg gatgttggtg ga 402

<210> 4573

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-A5

<400> 4573

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 cggtgcaatg caccagcgag gatggcgag aggaggggt tggcgccgga tcatcgacca 120
 ccgcattctc cattgggacg tcggcgctct ctggatgcct gccggccagc cagtcggtag 180
 caatggctgc catctccttt tggtcctcg tccggccatc cggaagagt ctggagcgcg 240
 aggaaaccat cgtgggagt gtgtggacag gagaaaggga acggaggcaa atgactacgg 300
 ctacggccgg cgcagcagtt tatatagcaa tggggggcg cagagggacg gacgggtagc 360
 gccggagtag ctgccttggc aatcgtg 387

<210> 4574

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-A6

<400> 4574

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 gtgcgtgatt taccgccttc cagtgcgtct gaactcgacg gactagcagt aatgcaaact 120
 gaaaaatgga gcgtgatatt acagctctat gattatatac ctctcagctc acgtctaacc 180

gagattatga caagtatgaa agggcatatt ctataataag ttcgacatag tcacagtagc 240
atcaggatat tcttttagcga gaatactatg agagggcaca ttcgaatcga actaagacga 300
gcgagagcaa cgagcacaat cttggaaccg tacatccaat acagctgggc agcgtgaaca 360
atcgagtcgg at 372

<210> 4575
<211> 453
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-A7
<400> 4575

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gtcggggacg gcgactagag gcctgcccga tcgggctgca gctaagctac ggggtcgtgg 180
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gtgccagcga gggggggaga gctcagcgat catgcggggag ctggtgcagc tcgcggaaga 360
gcacaggaag caaagggggg agaagacacg ggcacgggag cactatggct tttggccgag 420
acgtaccggt gatcgctatg gcattctccg cat 453

<210> 4576
<211> 133
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-B3
<400> 4576

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acatatcaaa gattttttgt tttgggttaaa aaaaaaaca agaaaccaa aaaaacacaa 120
caaaccacaa aaa 133

<210> 4577
<211> 451
<212> DNA

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agcccaagct tggggatgcc catggcaccc ccaagataat ccaaggacac ctaaaagcca 300
aagcttgggg gagccccgga aggcaccccc tctttcgtct acttctatcg gtaactttac 360
ttggagctat atttttattc gccacatgat atgtcttttg cttggagtgt cttgtattat 420
ttgagtcttt gcttgtagt ttaccacaat cataacttgc gtacacaact tttgag 476

<210> 4580
<211> 145
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-C2
<400> 4580

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atttaaacc ttcaatgggg aaaat 145

<210> 4581
<211> 330
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-C3
<400> 4581

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ttttagagca cggtggtggt ttaattttat agaaagtaat gaactctcat gcttcactta 180
tattatcttg agagccttta gaacaacatg gtagtttgct ttggttatga aactagtcct 240
aatatgatgg gcatccaaga gggatataat aaaaaaattc atatagagtg cattgaatac 300
taagagaagt ttgatacttg ataattgttt 330

<210> 4582
<211> 229
<212> DNA

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 ctgcttccaa ccagagacca ggctcgacag agaacggacg cacatctaac tcttcttcta 240
 gtaggaacat tatcgtgcaa cctgaagtcc tgatccgcca gctgtgcacc ttcatacaac 300
 aaaacgggtgg ctccgccagc tcgacgagct tgacggaaca tttcaagaac cgcatacaac 360
 caaaggatat gctgggtgttc aagaaccttc tgaaggagat agcaatgttg caaaggggag 420
 caagcggctc aacgtgggtg ctgaaacccg agtatgggta atttgcggca gt 472

<210> 4585
 <211> 483
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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<400> 4585
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 tgaccccggc gctgcacccg gagatgatcc tggcggcgac caacaacggc gacatcgtgg 180
 acgcctaaag caaagcaatg aaccacggac accaagaggc gtacgtacgc tgggtgtttgg 240
 gggcgcaaaa tcaataagat gggtcggtga aacggaggat gcttagggac gagggcttgt 300
 ctttgtgatt tgtcagactc gtgtttaatt ccgatgttta tctttagttt tcttgtgtta 360
 gcgtattttg ttcatgccac ctgcccggca tgtgctctgc tctgctctgc ctacggcgag 420
 ctccatggat gatgaatcct tctggaacaa gaggaggga taaaaagggt gagttcanaa 480
 aaa 483

<210> 4586
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-D1
 <400> 4586

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gagaaatact tgtgttgaag tttgcaagtc ccatagcatg cacgtatggt aaacgttggtg 180
taacaaattht gaaacatgag gtgttctttg attgtaatcc ttatgagtgg cggtcgggga 240
cgagcgatgg tcttttccta ccaatctttc cccctaggag catgcgcgta gtgcttcggt 300
tttgatgact tgtagatttt tgcaataagt atgtgagttc tttatgacta atgttgagtc 360
catggattat acgcactctc aaccttcc 388

<210> 4587
<211> 295
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-061-Q1-E1-D2

<400> 4587

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gatttgaaat aaaacgaagg gagatgtgcc ccgcccttaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa taaaagatg ttaagaaggg 240
aaaaaaaaaa aaaaaaaaaa agcggccccc caaaggttc aagctttaat tacc 295

<210> 4588
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-D5

<400> 4588

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cggatatgct atcgaaagg ttaggtgctc ctgttgatc agttattgtt ggttcgaagg 120
acttcatata caaggctaag attcttagga agacactatg tggtggaatg aggcaggttg 180
gaattctctg tgctgctgcc tatgttgagg ttcgcgacac ggtaggcaag cttgccgatg 240
accatacgaa ggctaaagtt ttagcagatg gactgaagaa aatcaaacag ttacagtcg 300

atctaacttc agtggagacc aatatggtat tctttgatat tgcggatcca cacataacgc 360
 ctgacaaact gtgtcaagtc ctggaacagc gcaatgtgct tgcaatgcca gcaagctcca 420
 ag 422

<210> 4589
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-D7
 <400> 4589

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 ttggacacag gaaatctagt ctgtgcaacc aggttgctggg acacaacaag ctgacatgtc 180
 caacactctt ggaaagaaac aatgatgagg aggtcaagca acccaaactct caaaaatagc 240
 agcccaaagt tatggaacaa aagaaggagc cacacccaaa gaaagcaagt agtagacttt 300
 gtagcatatg caaggagtat gaaccacata atgcaagaac atgcccgaag cacgctgatg 360
 ctgaaaagac aagcaaaaag atagagaaga aacataaagc aaaacctaga gccatcaaca 420
 agaaagtggg ggaagatgaa g 441

<210> 4590
 <211> 483
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-D8
 <400> 4590

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 agcagcaacg cctgctgaag ctggagatgc tgcttcaact ggattcaaga aaccgtgtgg 180
 gaggccgaga aaggagagac caccagcatc aatccctact gaaactgaag atgcaacccc 240
 tgctgagact ggtgatgcaa ggctgctga aactggagca gcaacgcctg ctgaagctgg 300
 agcagcaacg cccgctgaag ctggaaatgc tgcacgaca gggatcaaga gaccgcttgg 360

aaggcctaga aaggtgaaga agcttgggag gccaagaaag gagaagccag aagaagcagc 420
aatatctggt gaaactggag atgatgctgc agcagctata tttgctgaat ctggagcagc 480
aac 483

<210> 4591
<211> 253
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-E1
<400> 4591

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aggaaaggaa aaacaggacc aagaagatcc gtggtgtgaa gaagaccaag gccggagatg 120
cgaagaagaa gtaagggcct ttgcttggtt taggacggta tccctgtggc aatgttgctg 180
agtgccttaat tataactaga aaagactttg tcatttatgt catctcctgg tatgctaaga 240
ggcattttgt agt 253

<210> 4592
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-E2
<400> 4592

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tcattacatc ttactcaaaa cagccacat acctacctat catggcattt ccatagccat 120
tccgagatat attgccatgc aacttccatc atcatcatat acatgacttg agcattcatt 180
gtcatattgc tttgcatgat cataagatag ctagcatgat gttttcatgg cttgtccgtt 240
tttttgatgt cattgctacg ctagatcatt ccacatcccg gtacacaacc ggaggcattc 300
atatagagtc atatctttgt tctagatatt gagttgtaag taaataaaaag tgtgatgatc 360
atcattatta gagcattgcc ccagtgagga aaggatgatg gagactatga ttccccacaa 420
gtcgggatga g 431

<210> 4593

<211> 395
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-E3

<400> 4593

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 tcgtttttgt tcgatgagcg acaagctgca taaaattttc tatatccatg gattttgaag 180
 ctaactcttc aaacgtgagg ggcctcactc cttgtaactg gacagccact tccgancgga 240
 gattgttcat gcacatgcgc actgcttccg gctcattgat tggctgtggg caatgaagac 300
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 gggteaactc agttatgccc accgtcctct gtgtg 395

<210> 4594
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E4

<400> 4594

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 gccttgttca tcttttccct tccggaccac gcatacgcac cgcataatcat atctcgcata 180
 tcatacatgt tttgcatcat gttgcttgtg catttctcgt gattgattgt ggttcgttgc 240
 ttgtgttctt gtcttgggta gagccaggag acgagttcgt gaacgaggaa cctgtttagt 300
 acgcttacga ggatcaagct ttcgacaact ctgagaacct tgcaggcaag ataaccaccc 360
 ctcgaaatca cttctatctt tgctttgccca attgttccgc tcaattgccca tgttgcgcta 420
 cctaacac 428

<210> 4595
 <211> 470
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E5

<400> 4595

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atgtgaaggc ttatagcaat gtgaacaagt atctacttac tggtaggtag agaaacatca 180
tggaacatgaa tgcaggtttt gggggctttg ctgcggcgat cgagtcccca aaatcttggg 240
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gattgattgg catttaccat gactgggtgtg aagctttctc tacttatcca aggacctatg 360
atcttatcca cgctagtggc cttttcacct tgtatagcaa taagtgcagc atggaagaca 420
tcctccttga gatggaccgc atcttgaggc ctgaagggtgc tgctataatg 470

<210> 4596

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E6

<400> 4596

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caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaac gaaaaaataa aaaaaaaaaa 180
aaaaaaaaaa ggggccgccc aaaaggttca aacttaactt acccttgaag gcaacttcaa 240
acccttcaa aagtgcctcc aaatttcatt ccaggggcct tcttttttaa actttttaac 300
gggaaaaccc ttgggtttac caaattaaac ccccttgaac aaaatcccct tttcccaact 360
gggcttaaaa ccaaagggc cccaacgttt cccctttcca aaaatttgcc caccctaaag 420
ggcaattgga accccccttt taccggc 447

<210> 4597

<211> 462

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-E7

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ggacatcagg gaggagatac tgcggaagcg gagagccggg aagctcccag gagacacggc 180
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caaggcgctg ctggtgcagg agacggggct gcagctgaag cagataaaca actgggttcat 300
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gagaaaaagg aacaatgcag gtgacggcaa cgccgagcag tcctggtang gcgggcgctg 420
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<210> 4598

<211> 184

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E8

<400> 4598

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accctgcggg tgcgcgcagc cgggtgggctc ccaggatctc cggcgtccac tctgtttgcc 180
tttc 184

<210> 4599

<211> 403

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-F1

<400> 4599

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aggccaaca ngccctggtg aagtatgagg aggagcagac gacgtcgaaa accgtgggtcc 180

agcgggtccaa agtgcagctg gtggactatc tctacggtcg aatgcgggaa agccggaagc 240
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 gatggagcga ctcatagtt catgtttttc tacgtanata cag 403

<210> 4600
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-F10
 <400> 4600

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 attggtacac tggatgaaggc atggacgaga tggagttcac cgaggcggag agcaacatga 180
 acgacctcgt ctccgagtagc cagcagtagc aggatgccac tgctgacgag gagggcgagt 240
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 ttgctgggtg ggggttcttg gggcagagtt tgatctgttt ggtgctttgt tataaatctg 360
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 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4601

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 aagctatttt ggttatgacg atggaggaca actgactgaa aaagtcaaga gtcacccgta 180
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 gaagaacaca ntgcaagaaa cacacaagct tgtcatgaa 399

<210> 4602
 <211> 394
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-F6
 <400> 4602

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 tagtttgttt tgatttagtt tagcaactaa atcatttaaa taaattcagt agaattttat 180
 gtggcttgct aaaatatata taaagccact caciaacttc cagaattatt ggagtcatat 240
 ttaatatata ttaaatataa atccaaagca aatagttatt ggattaattc aaatggccaa 300
 aataattatc tctgtgactc caaaaatatt ggtttgaatt ttacctctca ccaatatttc 360
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<210> 4603
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-F7
 <400> 4603

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 taaatgaatt gattaaggaa aatatggaaa tgaattaaat aaaaaaagta agagatcaga 180
 tgttgtaaaa ataaataaaa aaacaaatga aaagggggcg atcctaaggg ttcaaggttt 240
 atttcagctt gaaggcaagg taatacccct tcaaaattgc cgctttaatt caattcaggg 300
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<210> 4604
 <211> 478
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-061-Q1-E1-F8

 <400> 4604

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ttcctgatga tccttttagc cttatgtacc ttgagaccaa caactcttgg ccacgaaaac  180
ccatgatatt tgtacacatt tgaactatth gctctccata atgttcgtht tgcctcacct  240
ggaacctgca tagattgagt agaactttgg cattatgtta aaaattggag atcttaaagt  300
ttttctaagt ttgttaccaa cgttcgcatg atagagcata taaattaggt ccgtagctgt  360
aaatgtatct aaaattctag acaagcaaac acatcatttt ttgttttttc tgatgttaaa  420
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<210> 4605
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-061-Q1-E1-G11

 <400> 4605

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tgggtgcttg acaagctgaa ggccgagcgt gagaggggta tcaccattga tattgccctg  180
tggaagtctg agaccaccaa gtactactgc accgtcattg atgctcctgg tcaccgtgac  240
ttcatcaaga acatgattac tggtagctcc caggctgact gtgctgtgct catcattgac  300
tccaccactg gtggttttga ggctggatgc tccaaggatg gccagaccgc tgagcatgcc  360
ctccttgctt tcaactcttg agtgaagcag atgatctgct gctgtaacaa gatggacgcc  420
accactccca ag                                                    432
  
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<210> 4606

<211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-G12

<400> 4606

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tatctatata cgggtgcggtg gacgacctac tattccctct tgataagttt atctatctgg 180
tggtgttgga ccttgaaggt tggcagtgct tcaaggacga agacatgttg ttgatatgca 240
gcagcaggat gctccttctc cgttatctga gcgtgaagaa tacaagagtc cgcaagctcc 300
cggccaagat caaggagctg cgcagtctgg aaacgttgga catgagccac acagaggtca 360
gtgagctccc atcagaagcg tgcgagttgt cacggttgga gacgctggac ctaaggagca 420
cact 424
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<210> 4607
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-G2

<400> 4607

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tctgtcggta cggcgggtacc atacaccac catatacctt ccttaaaaca gccaccatac 180
ctacctatta tggcatttcc atagccattc ctaaataat ttccatgcaa cttgccactg 240
ttccgtttat tatgacacgc ttcattcattg tcatattgct ttgcatgac atgtagttga 300
catcgtatatt gtggcaaagc cacctttcat aattctttca taaatgtcac tcttgattca 360
ttgcacatcc cggtagaccg ccggaggcat tgacatggag tcatattttg ttctaagtaa 420
tgagttgtaa ttttttga 438
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<210> 4608
 <211> 404
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB103-061-Q1-E1-G3

<400> 4608

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ttgcctgccc gcacaccggg gtcgctctcg cggcgctctt caagcttcgg gaaaagggca 180

caatcggggc aaacgaccgc acggtggctg tcagcacggc gcacggcctc aagttctccc 240

agtccaagat cgactaccat gatcagaaga ttgaggacat ggcttgcaat tacgccaacc 300

caccggtcag cgtgaaggcc gacttcggcg ccgtcatgga cgtcctcaag aagaggctca 360

agggtaagct ttgagcatgc cctcctgctg ctgctgctga accc 404

<210> 4609

<211> 318

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-G4

<400> 4609

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ggatcaatcc taagcagcaa atatctggcc tttggatcgg tgataaaagg tgtaccaaac 180

agtccctttg ggttacccta taaagacaca tttctcctat ttgggttcga gcttatcagg 240

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cttgcaaaac catagttc 318

<210> 4610

<211> 482

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB103-061-Q1-E1-G8

<400> 4610

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 ctgcctcgga gcggttcagc acgcaacatg tgatgctgat atgaagcatt aaaaagacct 180
 tggagcatcc cttgtgtagt tagttgaatc atggcatcca gggaccctct gctgacttgt 240
 gtgtagagaa aacaagaaga cattacatct tggttgctg cccagaagtg tcgagcctga 300
 gcctgaccct gatcgatcgt gcctactaca tctcgtggc gcggaaatca atcaatcaat 360
 cagcgactcg agtcgggtga agttagtgtc gttgatgaga tttggtggtg tttttattca 420
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 tt 482

<210> 4611
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-H12
 <400> 4611

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 taccgagtaa actcaaagat tgggcccgcga gcgtgtcggc agtccaggac gcggacatca 180
 gacaagaatt ctttcgcata cagtcggagt ttgcggaaat catccatcaa gatgtccttc 240
 gtacctcggg gcagttctgc ctcagaaatc aaccgtccaa cagtgcatac gacacaatgc 300
 taaaaatgca gcctgacaac gcccgttatt tcatgactcc cacgatagac agcagcttca 360
 tccacgctcc ggtcccttga gtcgagtcga aagcagtga cctg 404

<210> 4612
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-H2
 <400> 4612

tgaggagcgc gaagaaggag aaggagggag gaaagaagag ccaccatggt tctttttgtc 60
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taaactagtt atgaaatagc taatttagaa gtcctcaaca aatcctaaag ggcaacttat 180
 attttaagcc ggaaagaggc atcttatttt gtaagccact caaaagaact agccctacaa 240
 ataagatata cacatttaca cacacacata tgctaaatgt cacttgctctg aagatgaatt 300
 tggcactact tgattatgcg tatagcatcg acaacgcgac ccgatcatggg gtcccatcgg 360
 agatgtgcct ggaacg 376

<210> 4613
 <211> 479
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-H4
 <400> 4613

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 tgatccctag tatgcactat attctgagat tgatgttgct atgactttgc tatgcttaat 120
 gcttgtcaca agggcccgag tgccatgatt tcaattctga accaataagg tttccaggaa 180
 aaaagggtgag tccttgatcc aaccttgagc ttcaaataac accaacaatg tgtaagaatc 240
 cggaaccccc aaattgacaa taatcggaac aattcccggg gatgacaata gtttgaggag 300
 ttcattgtatt cactaggtgt taatgctttg gtccgggtact ctattaaaag gaggcncata 360
 tatcccttag tttccgttan ggacccgctg ccacgggagg gtaggacaaa gatgtcatcc 420
 aagttttcttt tcataggcac gtatgactat attcgaaata catgcctaca ttacattga 479

<210> 4614
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-H8
 <400> 4614

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 gttttcaagt tttgagtaaa gtttttatgg actatggaat aaggagtcgc aagagcctag 120
 gcttggggat gcccaaggaa cccaagata ttcaaggata gccaaaagcc taagcttggg 180

gatgccccgg gaaggcatcc cctctttcgt ctttgttcat tggtaacttt acttggagct 240
atatttttat ttgccacatc atatgtgttt tgcttggagc gtcgtgtact atattagtat 300
ttgattttta gtttaccaca atcacccttg ttgtacacac cttttgggag aagcctatTT 360
tattaggatt tgctagaata ctctatgtgc ttcacttata tcttttgagc ttgatagttt 420
ttgctctagt gcttca 436

<210> 4615
<211> 318
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-A1
<400> 4615

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catataatTT gaagaagtca ttttatcttc tctcgtgaaa atcattgagt cgcataaagt 120
ttcagaattg gaatatttcc aaatgaaatt caattattct cagaaccctt tgtcatttaa 180
ataaatggaa gaagtcaggt catcttctct cgggggtttt gtgttgaaaa gaatttgaat 240
tcacggggat cagaaagcca ttatgaaagt ttgggaaagt cgtttttatt cctctcatTT 300
acctttcaaa aggttttg 318

<210> 4616
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-A10
<400> 4616

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caacaagttc aatcagaaat tggcagatct ttccactggt cccacagcga gactgatcga 120
tggtatcctg ctcaccaagt ttgacgctat cgacgacaag gtcggagccg cgctgtccat 180
ggtttacata tccggatctc cggatcatgtt cgtcgggtgc ggccagtcct aactgacct 240
gaagaagctg aacgtgaaat ccatcgtgaa gaccctcctg aagtaaaatg gtagtgctag 300
tacatgtcgt gctccgatat gtgcgcgatt caaggagtct ctgttatatc tccgaaaatc 360

ccccgtgaca tcgtcgtttt ctggtttggt ttggcgtgaa actgtcgccc ctagcaaact 420
 ttt 423

<210> 4617
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-A11
 <400> 4617

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 tatatccatg ttccatgtat actcccccta tatataaagt cattttcact ctgtgggata 180
 ctagatgttg cagtaattag ataagtgaag taaagtaaaa cctcatgtgc acttcatctt 240
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 gccatgaatg gacagaaacg gtacagcaac tagggttctc ggaacatgca aagcagccga 360
 aaacggaaag ccagccggcc tggagctggg gggtgcatcg attccaaatc tcc 413

<210> 4618
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-A12
 <400> 4618

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 atgagtatcc tatgccaata gccgatatgc ttattaatga tgcttctgga cataagggtta 180
 ttagctttct agatggtaat gccggataca ctcaaatttt tatggccgaa caggacatgt 240
 acaagacagc tttttgatgc cctgatttcc ttgggtttatt cgagtggaca atgatgacat 300
 tcagattaaa aaatgctggc gccacatatc acagcgctat gaatttgatt tttcatgatt 360
 tactcgggtg cataacttga gtctatattg atgatactga tgtcaaactg ga 412

<210> 4619

<211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-A2

 <400> 4619

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 tgggtgtgttt gacttggcgt agatctcccc ggcaacggcg ccagaaattc ttcctactac 180
 ttcttgagct tgcgttggtt tttcccttga agaggaaagg gtgatgcatc acagtagaga 240
 taggtatttc cctcgattag agaaccaagg tatcaatcca gtaggagaag aacgcacaaa 300
 taacctata cctgcgcaa caattaaaca cctgcgccc aacgcaataa aaggggtgtc 360
 aatcccttca cggtcacttg caaagatgag atctgataga gatagataaa ttaaaccaca 420
 acaaagatca attttttt 438

<210> 4620
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-A4

 <400> 4620

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 aatagtaggg gcggtgaggc ctccgcggca gcacagccgg ccacgggagg caggagcatg 180
 tggcacgacc ggcgtgctt tgggcacctg gagcgagaag accagaggtt gaagaagcac 240
 tacggctggt ggatagacat cgtacggtca ttggagctag aatcatgcat attgactaat 300
 ttgacaaagc cctccgtccc gtcaacttat taggcccaca attcatcctg ccactatact 360
 ggggtcccagc taacaggggg agtattcatt tttttgtgcg taataacgag gcacttcctt 420
 gcgtgcgaag atatagctgg tgggt 445

<210> 4621
 <211> 470
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-A5

<400> 4621

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gtgtgctcaa atctgctgtc ctgcaacaca tcagtgttgt gaagcctgct atgctgcctg 180
ctgtgttccc gcgcttcatg tcagtatcac ctgctcaaata agaggagagt ggatttgaga 240
gcagcactgt tgcggacatt ttgaagtcca aagggaagag tgctgatgga tcatggctct 300
ggtgcaccac tgatgacagt gtctatgatg ctgtcaaata gatgacacag cacaatgtgg 360
gagcttttgt ggttggttaa cccggggaag ataaatcaat tgctggcatc gtcacagaga 420
gagattatct ccggaaaata atagtgcagg gtcgactctc caagtcaacc 470

<210> 4622

<211> 462

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-A7

<400> 4622

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gaagccctcc atggtggatg cccctccgg tggacctccg gaacaggccc caagatggga 180
tctcgtggat acagaaagtt gcagcgggtg aattagggtt ttggctcctg ttctgatcgt 240
tcggggatac gtaggtatat ataggaggaa ggagtacgtc ggtggagctc tgagggcccc 300
acgaggtagg gggacgcgcc ctccaccctc gtgaccgctc ctggcgcttc ttggagtagg 360
gtccaagtct cctgggtcac gttcgggttg aaaatcacga tcccgaagg ttcatccgt 420
ttggactccg tttgatattc tgtttcttcg aaatactaaa aa 462

<210> 4623

<211> 475

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-A8

<400> 4623

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gcagcgggca cttcccggag gaggggttcg gcaaggcgag ctacttcaag aacatccagg 120
tggtggacag caccaacaac ctcaaggcgc cccatgggat gggcaccttc acggagcagt 180
ccaactgcta cgacgtgcag aacggcaaca acgccgactg gggctcctac ttctactacg 240
gcggccccgg cggagcgcc aactaccagt gatgacaaga acaccacat gactgacgag 300
tgagtgaagt gtagtgtggt gcaccatctg cattgttagg cctagatgat gataggtgtc 360
atgtgaatgg gtctgtgtgt tgtctcctga ttttttctt ttttgatttt ctcccggtgtg 420
tcaatcaagc cttctgaaga gaagcatggc atgtggtgtg gtctgtggtg gtgca 475

<210> 4624

<211> 417

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-062-Q1-E1-A9

<400> 4624

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gtttatttga tccatggtgt angaagcgcc ggtcaacacg gtggagctgc gccgtgggag 180
ggtgctggtt tggagatccg cgtgactatc cgagcgctag tccacctcag aatggaagca 240
agtgggtgcct tgcgggtgcc tcgccatgcc atggcagtgc cctgtacgaa accaatgcac 300
attacgtttt tcatgaccat gaaaagataa acgtgaaggt cgggcatacg ctataacttg 360
atgatgcata taaaatatga tgtctaagaa agattcggtg cacatgtttc tgaatgt 417

<210> 4625

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-B12

<400> 4625

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ggcattggac cgccaaaagt tcatcgaga agaatcaag aaattggaag cagcaggcct 180
tgtcagagga gtgtccatc ctacgtggtt ggccaaccct gtagtcgtgc gcaaggcaaa 240
cgggaaatgg aggctttgta tcgactttac cgatgtcaat aaagcttgtc ccaaagacct 300
acttcccttg ccgcgattg accagattgt tgactccacg gccggatgtg acttgctttc 360
atttcttgat gcatactcag gataccatta gatcttcacg gcagaagagg atgaggagaa 420
gacgcattca atcacccatg tgtc 444

<210> 4626
<211> 334
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-B3
<400> 4626

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agttgttgta tgttgtgtag cataacgatg ctttctgcct gtggaattaa accataaaga 180
ttgccaaaaa aaaaaaatga caaaaaaaaaa aatcaatggg cacataaaca tgggtgtcac 240
gtgttgaaat atgttctgtg acgcggaaaa gctaagtgtg ctgtcacgaa aaaattgggc 300
ccaccaagag gttcaagcct aacttggact ggaa 334

<210> 4627
<211> 118
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-B4
<400> 4627

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cgttgtgtag caaaacgatg ctttctgcct ggggcagtta aacaataaga ttgccaac 118

<210> 4628
 <211> 476
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-B5

 <400> 4628

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 gctacgactg ggcgagaaat ttgttacatc cattcttttt ttacggcaaa gaccggtggc 180
 cgctcgttcat ggcgaaaccc gtgcgacgag cgtcaatggc gagggatggt aggcggtgca 240
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 gccggagccg cggacatgga cggaatcatg cggataagga ggaagggcc tctttt 476

<210> 4629
 <211> 501
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-B6

 <400> 4629

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 ccaaaagcct aagctcgggg atgccccgga aggcattccc tctttcgtct tcgtccatcg 180
 gtaactttac ttgaggctat atttttattc accacatgat atgtgttttg cttggagcgt 240
 cttgtatgat atgagtcttt aatttttagt ttaccacaat catccttgct gtacacacct 300
 tttgggacag actcacatga atcggaattt attagaatac tctatgtgct tcacttatat 360
 cttttgagct agacaatttt gctctagtgc ttcatttata tctttttaga gcacggcggt 420
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 tttagaacag catggtattt g 501

<210> 4630
 <211> 485
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-B8

<400> 4630

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 gtaaaaagtt ggtgctcatg aacttccaga cctcccatga gattatcctt cctccgttgg 180
 attatataga gtattaccat cgcggtccaa gtcactctaga ttactacgtc agttggacgg 240
 accttgtttt gcagaagatt gtaatctgcc aagtaaccac acgatatgcy aattacatag 300
 acttcaagct aattgccttg ttcaaccgcy gactcgccta tctttatacc ggtgcctttt 360
 ttagccggag acaactcggc tcacaatgga tcatcgtcaa ggccgataca cacttctgtg 420
 atgctattga acacaatggc atcatctacg cgatcgacaa agcagatggc accatgtatt 480
 gctgg 485

<210> 4631
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-B9

<400> 4631

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 gcagtcagcc agaggaagac gaaggcggtt cgatcagtcg gatcccctgt tcttttcac 120
 cagacaagtc gggagggggt ttcttgctcag ctagtcgggtt tctggcttgt cagtagctgc 180
 ggtgcgtgtc gtgtggatcg agttagttgt actaccagaa attcggaatg acatggaacc 240
 catgcgtatc atagcagatg gtacgggctg cctgcccttt tcctgggtgt tcggttggtg 300
 ttggttcatg gtggagtgc agtgtgacaa tgtatgcctg gcgatgccac tacagggcgt 360
 gtatctgtag gcatattccg agctggcttt atccctgtgg atctgttttg tccgcttatt 420
 ttgacactgc 430

<210> 4632
 <211> 458
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-C1

<400> 4632

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 atgaagaatc actccaaagt tactatctag cggagaacat aagaataaat tgtttgtagg 120
 gtacgaaacc acctcacaac tattctttct gttcgatcta ttcaagagtt catattaaaa 180
 taacacaaaag ctattttttc cgttcgatct atcctagagt tcgtactaag ataccacgaa 240
 agaaaattca tattcataat actcaatcca acacaaagaa ctttaagag ttccccaaga 300
 tttctaccgg ataaacaaag acaagaacgt gcatcaaccc ctatgcatag attaccccaa 360
 tgtcacctcg ggaatccacg agttgagtgt caaacatat atcaagtga tccatacgat 420
 gccccattgt caacacgagt attcaattgc aagacatg 458

<210> 4633
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-062-Q1-E1-C12

<400> 4633

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 tacagttccc atccagaggt ggagtcgtgg acttcccccg acctcagcgc aggaggtctc 120
 ggccagtctg tcaagccttc ccgtcttcga tcgtacgtca tgcgtttga ttcagacacg 180
 ttacaaactt acgcgacaat ccggtcgaag gtggcgtttg gcatcatcga gaagcacacg 240
 gaggcgctat tcgggaagcc ggagatcgtg atcaccctcg aaggaacggt cgattcttcc 300
 aaggatgagt atgtcaggat aagcttctcc gggttgagaa ggctcatctt anaggctgtc 360
 accttcggat ccttctctcg ggacgtcgag agctatgtgg actccaggta caatttttgt 420
 cacaactaa 429

<210> 4634

<211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C2
 <400> 4634

ggtcgacggc gttcttttga taaagttgag tccatggatt atacgcactt ttacctttcc 60
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 acttcaccgg tacatccaaa ccccgatgata tgatatgctc tatcacacat aaacctcctt 180
 atatttttct caaaacagcc accataccta cctattatgg catttccata gccattccga 240
 gatatatgac catgcaactt tccaccgttc catttatcat catgacacgc attactttta 300
 tcatattgcc attgcatgat catgcagttg acgtcgtatt tgtggcaagg ccactttgca 360
 taatttttca tacatgtcac tcttgattca ttgcccattc cggtacatcg tcggaggcat 420
 tcatatagag tcatat 436

<210> 4635
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C3
 <400> 4635

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 gcagaggaga ggaagcggag gcgacgatgt cggcgatgac tgcggcggtg cccttctggc 120
 gcgcggcggg gatgacctac atcggctact ccaacgtctg cgcggcggtg gtgcggagct 180
 gcctcaagga gcccttcagg accgaggtct cctccgcga gaaggtccac ttctccctct 240
 ccaagtggac cgacgagaag cagcagaagc cactgtgac cacagatgat gaatgaagat 300
 caggtgccat ggtgatgttt tgagaaattg ttggtttatg gt 342

<210> 4636
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C4

<400> 4636
 ggtcgaccgg tcggagcgtc ttatataata tgattctttg ctttttagtt tgccacaatc 60
 atccttggtg tacacacctt ttgagagggg cacacattaa tcatgaattt attagaatac 120
 tctatgtgct tcacttatat cttttgagct aggtagttgc tctagtgtt cacttatatc 180
 ttttttagagc acggcgggtgc ttttattttg aataaattga tgaaccctca tgcttcacta 240
 atattatttt gatagtctcg aaaatagtat ggcaattttc ttagcttatg aatttagtcc 300
 taatatgatg ggtatttaag aggggtataa taaaaacttt catgaagatc attgaatata 360
 tgag 364

<210> 4637
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C6

<400> 4637
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 accaccatgc ccgttgagct gatgtttgtt tcagctagag aaatcggtac gcccgctcat 120
 aattcctttt tcgacgtctt ggagaataat aactactggt atatcattct atatcaaagc 180
 .cggcttgtga aataaatgat ccgccgtctt gccttcaaaa taaaaaaaaa aaacataaaa 240
 aatagaatct ggaccagtag cttgaagcat ccattttctg gaatacgaat taattccgct 300
 tcatgggggt ctactgatt catgtcacat ggagttcgta tataatggtg gatgttgagt 360
 taacgttcta ttagtgcata ctaatgcct tgcaggagat accccttttg caaaag 416

<210> 4638
 <211> 464
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C8

<400> 4638
 ccgggtogac ctggctgttc ttgaaattgt agtatatagg ttacctatg cctcatgagt 60
 gatgttcaaa tcatgtcaaa taaaaatgat gggtcagatg ataataacta ttattgttgt 120

tgttgtaata aacttgccat tttgtaacag aagcatattg ttatgtacag gttgccttgg 180
 tggtagagagc cgcaaaggaa gtttgagatg tacaggtgaa gttgatgatt aagagggcct 240
 gtgcaatggt gtatacttgt tgatgtaatc tgggtgtagt gttattgagg tcagggtgaat 300
 tgatgttgga tgtgttcttt gacacatttt aaaaggcctt tactcaatga aacaattgaa 360
 tagaaatttg tgaaatggaa tagaatatgg tctattcaat ggaaactgtg aaagcatggt 420
 tgattatctg taatgggtcg tgccacaact gtttggatga atat 464

<210> 4639
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D1

<400> 4639

ggtcgacggg cgatgagcct caagcgatcg caggaggaca cggggaggca tgtcaggatg 60
 ctcatccatg agatcagtag cacgcttgac aggcacatca tcttcaagac tactctgggt 120
 gagctcgga ggacgctggg tctggaggaa tgtgctttct ggatgccgtc aaggaccggt 180
 tcgagccttg agctaattca taccatgcgc cacaacatcc ccacgggctc ttctgtggag 240
 attaatctcc ctgttgtaaa ccaagtctta agtaccaacc gtgcgatcat agtgccacat 300
 acttctcctt tggcgaggat ccacctgtt caagggcggc atgtctcacc cgaggtgggt 360
 gctgtgagat tctctgctg catctttcaa actttcatcc cgaagctt 408

<210> 4640
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D12

<400> 4640

cggtcgacgc caagaaagac ttatgtcaaa tatatcatca gtatcaatca ctatatgaca 60
 ccacacaaca gatatgctgc tgtcagcagt gctctctaaa tagacactgc aattatctta 120
 tacatcatta ctgttgctag caatgctctc taaatagaca ctgcaattat catgtacatc 180
 attgctgctg caataaacca ctaagaatta ttcaatatct agcctagcgc cttcgttatc 240

atcaaccgag ggttgaggcg gagttacaaa atctgaatga gaaaccaagg gattgtccaa 300
 gtcagcgaca tctttgttat cttcagagct gttagaagca gctgagatgg cgtcaccgca 360
 ttctgaatgt gttctgtcca catatgcttc gggtaaggag ctctcggcca catcagcat 419

<210> 4641
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-D2
 <400> 4641

ggtcgaccgg tcacctttga aagacaccgt tgggtactttt cttataaagt cctccctcat 60
 ggaccttgta ggccttcgat cgccagacta tgcagcgggc ctcatcttgg tcttcgggaa 120
 gttcctgcct aagtaagtag gctaggaaag gttctgtcaa cgcggcgatt actgcaatta 180
 tgacgtgggc ggaggatggt atgtcgtctg ccgaatcacc ggttggtgog gttttctccg 240
 gtttgctgct accgggctcc tcttcccata gtacggatgg cttgaagagc cgttccagga 300
 agatatttgg agggacagca tcacgtttcg caccgatgog tgccaggacg teggcgctt 360
 ggttattatc tcgggctatg tgatggaatt cgagtccttc aaaccgagct gaca 414

<210> 4642
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-D3
 <400> 4642

ttgacatgac atacgggact gactcctgtc tgcaaagtgt cagtgggtgg acatatggta 60
 aatgtgaagt tatgaaagac accactgttg gcataaaatc ctatgcaggt attgctgcgg 120
 agggatcgg aaacggagcg ctcttgatgg caatgaatta ccatgtcaat acatcaaata 180
 ccgctttgtg ggattacatg ccaatggttt tcaacatctg accttctccg aaatttttgc 240
 accgtacttc cgccatgtta cgccgcgttt catcttttgc ttgttatgat agtatttcaa 300
 cacttttttg tgggaaaagc tgataatggt tagatgttgg gtatacagaa gcatagaagg 360
 aaactaacia cgacattttc ggcagcacgg tcatttcttg caaattgccc tgccgttttg 420

tgcaactgtgt tatta

435

<210> 4643

<211> 467

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D4

<400> 4643

acttggttagt gaaccatttg ctgtttgggg ccttgcttct ctgggacctt ttccttcgtc 60

tactgggtat acacatattc tagttgttgt tgattatggt actaagtggg tacaagctat 120

tccaactagt actgttggtc ataacacttc tattaagatg cttaaagaag ttatttttcc 180

gatgtttgga gtccctagat atttaatgac tgatgggtgg tccacatttta ttcattggtgc 240

ttttcgtaaa atgcttgcta agtatgatgt taaccatata attgcatctc catatcatcc 300

tcaatctagt cgtcaagtaa aattgtttat tatagagatt aaattgatat tgcaccagac 360

tgtaataaga tctatacaga attgggtccac gaaacttgat gatgcactat gggcatttat 420

aactgcttat taaaatccta tgtgtatgtc tccgtgtaaa ctggttt 467

<210> 4644

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D6

<400> 4644

gtttatcctt tgcgctatgg cttcacattt atctttttaga gcacggtggg ggttctatct 60

ttattgatgt ttctaatttc tcatacttca catcttccaa tttgctcgtc tttggactca 120

tcgggtatat ttactttgca tgcacggtt taaagcatgt cgcattcattg cgtcacttct 180

tcttgtgttg caatagcctg gtcgacctct atcaggtgtg cacattgagt actttcccct 240

atttcccttc gattgtcttc agcttgggtt ctagattatc attggcggtc gatcacctct 300

gtgtcggacc ttcgattctt ggggtgttgc acctgtgctt tgattacagt tgttcgccat 360

tggtctt 367

<210> 4645

<211> 369
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D7

<400> 4645

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 caagagtctg gcaacactgt catcaatgtt gggacaaagg tgagcccacg caccatggcg 120
 ccaagtgtga c gatcctggc tttggatgtg cgttggtgaa tccgcagtta tgccaagatg 180
 atccctactg tcatcagatg ctttccaaac gttgagacgc tccacatcat gtctggagaa 240
 actggtcaac cctctggcaa gcacaacctt gatttccgga atgagtctgg taccatagca 300
 tgcactctgt cgtgcatcat tctgctgggt ttccatgatt tccgaaggga tcgacatgag 360
 cttgctttc 369

<210> 4646
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-E1

<400> 4646

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 gcagatttat tggatctgtg gactgtggcc aaccatcttg attctaactg aacattttcg 120
 agctactggg tgctgggtgt atttttcttg cagctggcca tgctcggctg cgggtgggtg 180
 ctggtatacc ggtgctcggg gaatggcatt gttgcggtgt ggttcttttg ttcttgctgt 240
 cgttgcgctc tgtgttaatg cgggatcaa taatagcaat agtgggtactg gcagcgaagt 300
 gaaccactga tggtttgtgg taggcctgaa tggatgggta taatagtatg gtagtagtat 360
 aatggcagta tatgcagatt caactactta tatttttc 398

<210> 4647
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-062-Q1-E1-E2

<400> 4647

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ataattatac gagtaactat atatccaaat cacacaaaca tcaatttggg aatgtaaaac 120
attcatgaac aagagggtca ccacaagggt gtgccggcga tggaacgggt tgggcgattg 180
actatgggta cgacggagat ttagaaggca ctaagtaaac cacacctaca tatgcaaact 240
aagtgttatt tttgacctca aattgcgtac aaatcaaata ctagcacata tatttcctcc 300
caaattacta aactcataaa ttaatcacta tacanagcat tgcaagagct aatctagcaa 360
tgagagatga aaggacaaag ttgctaacct ttgtgatcaa ttgaatggat gggggcctca 420
natcttgaca aatttt 436

<210> 4648

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-E3

<400> 4648

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cactaaagca tatacagggt aatgatttgg gtgcgggatg gattgatcac cataccaact 120
tactcttatt attcgccttg ctatatggga tggtaaactt gagtgactta cctatagtag 180
acaaatgacg atcaaaacct tgtttaagcc ttagaatggg ataggtattt tttcttcctt 240
gtacaaggaa gtttttgcca accgtaggtt atacggtgag gatcaacca gaccatttcc 300
ctgcaggaga aaccataaat ggttgaccac catgagatat caatagtgtt ttagtattgg 360
gccaaaaccc atcagctaag aggaccatt ctcaaaaaaa ccttacctag atgaaggaca 420
gacgaattgt ggtaaagggt atgccactac cggaaaaccc cggataagga a 471

<210> 4649

<211> 321

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-E4

<400> 4649

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gcaacttaat cctaatacat cccctgccaa tagggaaggg taatcctggt taccttgcct 120
gggttgacca atggcgattc agaccttggg taagccttaa aatgggcca gtaatttttc 180
ctccttgtag caggaagttt ttgcaaatc gtccgttaaa cgggtaggat taaccagac 240
ccatttctg catggtaaac cataaatggt tcgacacat gggctatctt tttttgttta 300
gtactggggc cagacccatc a 321

<210> 4650
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-E5
<400> 4650

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cggctgctac agcagtatgt tactttccta tgatatcatg atggcttgct tatattaatg 120
tcaacattta ctggaaaaat attcatgctc ataacatgct gttcttaaga ttgactacat 180
taagagccct tttttatttg actccaactt gatatgatgt tgtaggccgc ctggtgtccc 240
tacccttact aatcccagaa actttcaaag aaaagcggcc tggcagttgc aggtggttcc 300
tggctcgatg agacgatggc gaatgattga tgatcgttcg cacgtaccgg acgtgttggt 360
tcgcggaata caatcacaat cactgcaagg tctttgagca agattccagc ttctctgggc 420
cttcaagaat ttttgac 437

<210> 4651
<211> 381
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-E6
<400> 4651

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cagtatgtta ctttcctatg atatcatgat ggcttgctta tattaatgtc aacatttact 120
ggaaaaatat tcatgctcat aacatgctgt tcttaagatt gactacatta agagcccttt 180

tttatttgac tccaacttga tatgatgttg taggcgcct ggtgtcccta cccttactaa 240
 tcccagaaac ttccacagaa aagcggcctg gcagttgcag gtggttcctg gctcgatgac 300
 acgatggcga atgattgatg atcgttcgca tgtatctgac gtgttgtttc gctgaataca 360
 atcacaatca ctgcaaggtc t 381

<210> 4652
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-E9
 <400> 4652

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 gaaatccaat tttatgtgta gcgcaaagga gttgcgattt cttcttattc ctatagaaca 120
 tctagtaaca agaatatgaa atcgtaaata gcgaaaaatt cttgtcttgc gcggtctaag 180
 tctaaggaaa taaaaaaaaat tcgcttatac aatttcatct acatcgaatt tatatatcag 240
 aatagcggat agaggcatca ttaaaggagt cagggtctact tactttatgc ttctttccaa 300
 ttttatggtg gatttgataa gaaccctttt tgctttcttg ataaataatc gacaaaaaaaa 360
 gcgttttttt tatataacct gcttgtttta ttataattat aacaagtcct atatggaaat 420
 gcccgcataa gag 433

<210> 4653
 <211> 340
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-F1
 <400> 4653

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 tagtgtgcat ggcacatacc aagggcaatg catttgtttt tcctattgct aaagctggag 120
 ctctccagg aggaggagaa aacaccaggc cactgatcat aaccacaaat ggtgcaattg 180
 gcgtcttctc agacagcacg gaccttgctt accaacaagc ggtgaaagat ggcgcggata 240
 taataaattg ctgggtccgg atgtcgaaag acgggggtgc cttctgcctg ggctctacag 300

atctcaacag cagcacgaca agcagccaca acttcttggg 340

<210> 4654
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-F10

<400> 4654

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atgatgtcca tattcctaaa ctgaaattga aaattcaacc atttgagggg aaaaagggtcc 120
cggaataaaa tctaacttgg aagttagaaa cggaataaaa atttaaatgt ttacaatatc 180
ctgaggagag acgagttgct actgccgttt gtgctttcac tagttttgca tgtgtatggg 240
ggctctgaaca ttgtagatta taccctattc caactacttg ggctgctttg aaaactgcta 300
tgcgtagcgg ttgggttcca ccatattatc aacgtgaatt gcttcaaaaa ttgcagcggt 360
taagac 366

<210> 4655
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-F11

<400> 4655

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gttcgaataa gaaagtgttg cacttgcttc atgggctaaa agcattccct gatgcaaatg 120
tgagcaccaa tgacatcatt ctgcaagacc aaactcccta tgttttgaag ctacacaaca 180
gaagtccaga agacagggct tgttttgaga taactggcca agcaccaagt tctcttggtc 240
cagattctgc tggtttccct acttggtcca aggtttctcc aacagctggg ataactctgc 300
ctggacagac ggtagaggtc actttgcagc atggagtcct gcgtggaaca tcgtggaata 360
atttgtctgg ggctaaccat gaaaatgcag cacagttatc ggtgaaaata actggggcgt 420
gttctaccgt tgccaaatgt ta 442

<210> 4656
 <211> 247
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F12

 <400> 4656

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 caaacggga ttctggtgtg ggttaccgtt aggaccgact ggaacaaaga agtggcccaa 120
 gccagaaaa gattgaacaa atgggaaagg aacaagatgc ctccaataac aaggcaagaa 180
 tgaacaatg gattctggaa aagattaacc ggaatgttgg ccgttcccaa attgattccc 240
 ccaaaat 247

<210> 4657
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F2

 <400> 4657

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 cggcgccgga ggtgacgcag aggaggatca cctcccgga ccagttcgtc atcttgcca 120
 ccgacggggt ttgggacgtg gtctccaacg aagaggcggg gcagatcgtg gctgacacgc 180
 cggagaggga gaaggcggcg aagcggctcg tccagtgcgc cgtccgcgc tggaggcgca 240
 agcggcgggg ctacgcgctc gatgattgct cggcgatctg cctcttctc caccgcgcgc 300
 catcgtagac gggcgcgcat tgccatgtgg accaggaaga gagagagaga ccagaatggc 360
 ggatcactgc 370

<210> 4658
 <211> 174
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F3

 <400> 4658

 ggtcgaccgg acgaagaaga tgaggcagat gaagaagagg aagacgaaga agaggaagac 60

gaagaacaag aggaagaaga agacgaagag gtagaccacg acgaggaaga tgacgacgaa 120

gaagatgacg acgaagatta ggaagatgaa gacgaagaag acgaagattg aaga 174

<210> 4659

<211> 388

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-062-Q1-E1-F4

<400> 4659

ttgtggtgag ttgatcttag cctgtaaag ctttttcaga acctctgatg gatgtgatgc 60

ggcttcataa tgacctgaca gtaaaccaca gtttcagttc ctcggttttc tttctttctt 120

ctgtctttct ttcttgaaac ttaaataatgt atttctttct ttctttcttg aaacataaat 180

atgtacatat ttctttcttt ctaaataatgt aaggaattat ttctaacctg catcatgtgc 240

attcaatctt cggctgttct ggctgtgcat tgccattgta aattatcgcc atttatacctg 300

ngagctcata gcttcccaca tgcggtgaac cgatgaaatc catccagcaa atgggtctggt 360

tttcagaaga actcgtttca agatttgt 388

<210> 4660

<211> 398

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-062-Q1-E1-F7

<400> 4660

cggatcatgta gtccgggtcg acgggggttg cgcgcacagg aagccacttc tggggattcg 60

aagggcaggg tgtcatccct gatatagtca ctatggcaaa gggcataggg aacggaatac 120

cgataggagc ggtcggtacc acacctgaga ttgctaaggt gtttaaccgc agaagctact 180

tcaacacctt cgggtggtaac cctgtcagca cagctgccgg ccacgctgtt ctcaaggtag 240

tggagaagga gaagctgcag gagaatgcgt tcgttggttg ctctacctg aaggagaaac 300

ttaacgctct gaaagagaag catgacatta tcggcgacgt tagggggaaa gggctccttc 360

tcgngtga gctggtgacc gatcgccaga agaaaact 398

<210> 4661
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-F9
 <400> 4661

accggtcaaa ctagtccggg tcgacggggg cgggagaga cgggtgctga acgtgacatc 60
 catcggcacc agcgtggtga acatgctgag ccacctgctc tgcgactgcg gcgagaaggc 120
 cggcaagcag cagagcaggg gcttcggagt gcgctgctgg gtaaccagat agtagtacta 180
 gcagttgtac tacaagttaa gcgcactcgt taattactga ttgattgtcc gcttgctgcc 240
 actgttgctt gtaagtaagt actaagatgg aaagatgaat caatccatgt gaatcgtgac 300
 cgattgatgg attgctttgt gcatgcatgg gatgggagga gggccctttt ggttgtgtcg 360
 ttggttagtg gcagagcatg tggctttgtg gggaggaaag aaagaccatt ggtcccagacc 420
 cacatgagag accgacggag tgcattggc 448

<210> 4662
 <211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-G1
 <400> 4662

ggtcgacggg ggtagaaatc aaaaaatagc atcaagtgtt gatggttaac aaggccacta 60
 gtttcaagaa aagggcaaag ggaaagaaag aggaacttca aaaaagaata gcaagcaagt 120
 tgctgctccc atgaagaagc ccaaagctag acccaagcct ggaactaagt gcttctactg 180
 tgaatgaaat ggtcactgga agcagaactg cccaaatact tggcggataa gaaggatggc 240
 aaagtgaaca aaagtatata tgatatacat gttattgatg tttactttac tagtgttctt 300
 agtagcccta gggatattga tataggttcg gttgctatga ttagtaactc gaaac 355

<210> 4663
 <211> 325
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G10

<400> 4663

ggtcgacggg tccataaagc catcggcaac ataaaagtgc gtacgtggtg ggcagtctca 60
 cgaatgtctc gatgatgtga agaacatcct gttgtttggt tcagatcgaa gctgtagcac 120
 ctggatgatg catgttcctt tatctgtaaa atgtgatgtt gtgaagttgg tgggggttga 180
 gaattcttca gttgagtttc cttatgcat tcaataagaa catcattgtt tagtgcaccc 240
 aagacctcgc tgtgatcctt ctctgtttgt gctttttttc tccttaaaaa aaaaaaaaaa 300
 taaaagaaaa aaaagcggcc gctct 325

<210> 4664

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G11

<400> 4664

ggtcgacgac gactcctact aactggagg tgcctactac tacgtgcagc ccgctgacaa 60
 cgaccaggag tagtttagga ggatcccagg caggaggcct gcgcctcttt cgatttgtat 120
 cccagtttgt gctagtcttc ttaaggcaaa cttgtttaac ttatgtctgt actcagatat 180
 tgttgcttcc gctgactcgt ctatgatcga gcacttgtat tcgagccctc gagggccctgg 240
 cttgtattat gatgcttgta tgacttattt tatttgtaga gttgtgttgt gatatcttcc 300
 agtgagtccc tgatcttgat cgtacacatt tgcgtgcatg attagtgtac aattgaatcg 360
 ggggcgtcac actatctata cagtatatta tgaacctatc atctgctagc tacccttact 420
 tctggagcct attttttg 438

<210> 4665

<211> 401

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-062-Q1-E1-G12

<400> 4665

catccctaaa accattcacc ggtgtcatgc accggtgacc aatcccgta tgttcattca 60
gactcagtac ttcatgaaa tcaccgaaac acacccatgg cagaccgtca tcctcagcga 120
gagatctcaa cacgtcccaa gtcttgctc tatcactgac ttgtgcttca cgtacatca 180
ctgtgagccg ccatggagaa gcaccaggca aagtaacatg agcatctatg tgataagcag 240
agtaacaaaa attttcaatc tttatttcat tattccaaaa aataccgaga ccaccactcc 300
taccagagct actaacagca natgaattat cataacctag ggtgcttgct aagttttcca 360
ctctatctct cgggagttga gtttcaacan tacaagcac c 401

<210> 4666
<211> 247
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-G2
<400> 4666

cgaaggcaat aaaacatcta aataaacttt tccgaacaa aatttccatc cagcttccac 60
aggatgaagc attacttacc agttggaagc aacaattgga tcgtgatgtt gaaaccctta 120
aagcaaaatc taacatcggg agaattcgta cgtttttgaa ccgcattgca atcgaatgca 180
atgaccttga tgaattattc attaaggatc agtcaactgac taatgaaaat gtggccaaaa 240
ttgtcgg 247

<210> 4667
<211> 262
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-G3
<400> 4667

tacatacgct ttccacgaac aaggtttcca tccagcttac acaggatgaa gcattacata 60
gcagttggga gcaacaagtg gcttgtgatg ttgaaacca taaagctgga gtctacatcg 120
gtagcaatcg gacgtttttg aatcgcatg caatogaatg gactgacctt gatgcaatac 180
tactacaga tcagtcactg actaatggaa atgtgggcaa gattgtcggg tacgtgttca 240
atgatcatct taaggaaaaa ta 262

<210> 4668
 <211> 132
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G4

<400> 4668

cggaggccgt tgcgtagtgg cgctcagcac ggccaacctc tcacagttga acgacgtcgg 60
 ccctggcgcc aagctgatga agatcggcag ccgctccatg tactcaccgg gattcacgtg 120
 ctactcggcg ta 132

<210> 4669
 <211> 394
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G6

<400> 4669

ggtgcggagt cgacggcaac acggaggtga aaggagttcc atgtccgagt cggcgacaac 60
 gtgcgtcatc gtcggcaaca tggaggcgag tcaacggcaa ggtgcggcac cggtgacgaa 120
 catggaggcg agtcaccgac gagttgcggc accggtggca aacaggcggc agcgagcgtg 180
 ccacggcagt gcactcatgg tgaaggcgca cgagggtcgg ctctcactga agctagcggc 240
 gacggcggca atcgatgtga caagatggca ttggcggcca tctccgtgtt gcaccgacga 300
 catcgacgac cacgggcttc aagagagaaa taagttaaca agattatgga ggtgaatgtt 360
 agaactaatc ttgttattag cgctagtttt agat 394

<210> 4670
 <211> 498
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G7

<400> 4670

gggtcgacgg ggatacagac aaaaacatca agagacagat tatctcgcat tgaagcagaa 60
 ttgtcacttt tgaaagaaag gcagaaggga ctgactgagc agtgggagcg tgagaagtcg 120

gtgatgacaa agatccaatc tattaaggaa gagattgaca ggttaaagt ggagatccag 180
caggccgagc gtgagtatga tctcaatcgt gctgctgaac tgaagtatgg tagtctgaat 240
gcattgcagc gggaccttca aaaaactgag gatgagctaa atgaatatca aagttctggg 300
aatccatgc taagagaaga ggtgacccaa gatgatattg cagagattgt gagcaagtgg 360
acaggtattc cagtttccaa gttaaagcaa tccgacagag aaaagctact gtatcttgag 420
gacgaactgc acaagcgtgt agtggggcag gatcctgcag tcaaagcagt tgcagaggcc 480
attcagagat ccagagct 498

<210> 4671
<211> 458
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-062-Q1-E1-G8

<400> 4671
cgggacagaa aggataatgc atatgtcaca aaactcagta agtgggtattt gatgggttttc 60
agcatataaa tcaaagctca ctttaggggg attatttgta ggcaagaaag taaagctctg 120
aacagagatg tttgtgagga tttgggtgctg gccacactca tctgcatga agttgggtgag 180
gccggcatta gaaatatatt gcatgaactc ctcatgaatt ccagcctctt gcaggaatgg 240
ggtgtgcggc catccgcacg gacgtacctc cgccaacccc cgagggtgga gatcactgtc 300
agaagactcc ccgataaacac cettggagtt cttcttcgag ccaaacttcc tgaagatatt 360
catgttcgcg tacaattttt tgaaaataaa aaaatttggg gtgatgaaaa atcgtcaacn 420
aaactttata agattgatag caactactca tagggata 458

<210> 4672
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-G9

<400> 4672
ccgggtcgac cggtgaagtc aaggacatgg gttccgacaa ggaggagtag ggcatggaag 60
acagccggtg gcgcctcatg tctcatgtgg gccagtccat gtcccatgtc gtactcatcc 120

ttgccggctc cgattcttca ctttgcgggt ctacacggccg acagacatgg gcacggaagg 180
gaacaaccaa ggatgggcat caacgaagat tagactaatt ttaccttgc aatgtaattg 240
tatggatttg atgatttgct agtaatgtcc ctagatgtga aagaggacat ttcggaggag 300
cctgtggagg ataccaaaga ggatgccgct gtgtgaatcc gccagaaacc tggcgccaac 360
atttaccaag tcgttgtagc tggagcacca ttgtttggga gctctcgttg tac 413

<210> 4673
<211> 373
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-H10

<400> 4673
tacggcaaat tattagcaac gggagatagc cygagatgaa acggcgagta ttaagtcagc 60
ttcgtcggtc aggtcgggcc ttgtttatcc cgtgtcctgc tggccctgaa caaacccaac 120
agctcgagta acgtgacttt gtactctaataaatagtgtc acgggtctctg gaaacaaaac 180
ttctatattag atggctcagc attttttttt ttgcgaagaa tggctcagca ttcattgacga 240
atggataaca acttgactgt caatttctgt cacaaactca caacccttgg atgaataaaa 300
atatcttaaa tgaaatagaa aaataggggg cgcctacttt tcgcgcaact gaaaaagggtt 360
gacctcagcc gat 373

<210> 4674
<211> 349
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-H12

<400> 4674
aaggatggag gtaaaggcgg ttcacatcgg gctcaggctt caagcttcgg cgggttccaa 60
ccaagcaaaa gtcccaaagg ccacaaaaac caaggacaat ccccgcaaaa caatcaatgc 120
cgaaaagcca actctcaacc aaccctcgag taaaaacgat cggagctctt gtctcgagcc 180
aaggtaatgg aggaggcgat gcaactatac aggggaagctt gcgcgggccg cgggaccgaa 240
ggcttctgt aggttgacgc tttgaactct cctgcctgtg gctgcgtggg aagtcgctcg 300

gtggcgggtgc ctggcacgga aacatgtcct ttgttacctg cacggtgac

349

<210> 4675
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H2
 <400> 4675

gttgggaggc aaccaatatt tatttttggt ccttactttt tgattatggt tagtaataaa 60
 taattcatct atcctgtggt aaaatgtggt ttaaggcttt aaattagggg tgggtgccaat 120
 taaaaccttt tggaggactt ggggaaattc tttgcaattt ggcggtaaaa aacagaaact 180
 ttacggccca caaaatttgc tgccgttttt tacgggaaat tgcaattagg ttgatccttt 240
 ttgcagatga ttaatagata aattcctcac gtcaaaaaat ttatttcaga atttttgggg 300
 tacgaaagta ttcgaaacct acagattact acagactggt ctgtttttga c 351

<210> 4676
 <211> 463
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H4
 <400> 4676

gatggcgaac ggataaggag gccagcagcg tcgcccacat cgagcacttg tttgccgagc 60
 tctcctcggt cggtcagaag gtgcttcaat tcaatatgct gtccacgtct ggtgggcagg 120
 atgccctcaa ggaatccgtg gacaagcatg gcggctgccc cggcaacaag acggtctatc 180
 tatattctgc ccaatgcagc gcggactgca acgaggcatg ctctaaccac tgogacatgg 240
 actgccccta catagccgca agatttgggt acatcatggc tacacctgcc aataagaaag 300
 ccatogacca agacatggaa tgcttcaagc gttgctcaaa ggaaaaggat gccacaaatg 360
 acaaatgccg cgttgcatgc aagctggctg cctcgctccc ttgaaaatgc atactctctc 420
 tttttttaac ccatgcttca ttcaactctc cttttttttt ttt 463

<210> 4677
 <211> 481

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H5
 <400> 4677

tccgggtcga cgggtagacg attctgatgg tgtatacctc gtccatttga aagagcttga 60
 actccggatc tggctccata agggggacga ttggttgctg gtccacaaca tttgtctgcg 120
 tggcaagttt gctggtttga gtatgctaga tggcaatgct tttctccaaa taaaacaggt 180
 gggggacaat gccgagtatg tgttgctgga gatgatgtgt caatgcgcac tctacttgga 240
 tatcaagtgc aggacactgc atacagtgta tgaggtgaca aacgaggatc gatatttggg 300
 cgatatacat cctttcatga tgatatggcc tccaaagtcc cctgcgctca aggatgatcc 360
 tgcaacggca agaaatgcc a tggaagaac aagcctataa ctgggagttg ctggatggta 420
 tgtacatatg tcagtggtaa gctttggcgg gtgcaatcaa agatgagctg agctgcattt 480
 c 481

<210> 4678
 <211> 486
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H6
 <400> 4678

ggggcgaaaa aaaactagcc tcccttggcc tcgagagaga cacatgggaa cgggtacggg 60
 aacgggtgtg tatttactga aaatacaaat acgtaaaatg tggggtatat ggcccttctt 120
 tttctcgtcg caaacatttt ccagaccggg aacttggtggg cggggggcgc agagatagag 180
 taccacacgc atcacatgcc cctgtggaaa ttgcaagtag caaaaaagga aaaaagaaga 240
 taagagccga gccccgcccgt caagaaaa aaagagcctg ccggatgcag caaccgaccc 300
 gaggtggcc gactatcttg ccccgccata tgctgctcgt ctgatgctct cgaatctctg 360
 gattatctgc ggaatatcct ttgccatcat taaacaccgt cgaaagagac aagcaagcga 420
 gctcgtctct gatcacaacc agctcgccca aggggcgaaa cgcactacta gtctgtctaca 480
 gtacat 486

<210> 4679
 <211> 492
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-062-Q1-E1-H7

<400> 4679
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 gttgcagcgt tttcggcttt gggaaccttc tagagtttcc cagcaggttt ttctggtatt 120
 gggaaccttc tagaagggtc caaccggttt tctgtttct tttttttcc tttttagtgt 180
 ttctgtttat tctctgttt cttttttatt ttttttctt tatgctgttt cttcatttcc 240
 tcttttcttt ttttttgcc ttttttcctt tttcatgttg atttcatgtt gatatttgtc 300
 ttttttctaa aattaaaaaa atcagatttt aaaataagct ccactctatt aaatatgttc 360
 ataaatccga aaaattgtta atgtaaattt gttcacaat ttagaaaatg ttcataattc 420
 anaaatactt ctggaatttt aaaaaatgtt cacgggtgca aaatttggtc cgtgattcaa 480
 aaaatgttcc cg 492

<210> 4680
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H8

<400> 4680
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 gatccgccgc ccagggccat acgggtgcga cgggtgcgaa gagatgggca cctcctggtc 120
 ctacaactgc gcggagtgcg acttcgatct gcacgccaaag tgcgcgctgg gtgaggagaa 180
 gaagggagag gaggtgaatg ggcaggagca tgccgctgcc ccagctgggt acgtgtgcga 240
 gggagacgtc tgcaggaagg cctaggtagc gttagcgttg tgtgtgttcc ttgccagctg 300
 aagcgtgtct gaatcatgtc ctgtgtggtg tgatgataaa taaatcttgc atccgatgat 360
 ttggcttggg aagtatttgt cgtggtgaca tttatgtgca ag 402

<210> 4681

<211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H9
 <400> 4681

acggtctact attccgggtc gacggggaaa acgaccaacc catggacgag gagtatgagg 60
 aggagcaggt tccagattac tcgagagcct attctgggtg attgagaccc cttgcccatt 120
 tcatgatgga tgatgagacc gaggatgatg atgaagatgc tgaaggggac ggagaggggtg 180
 acgaggaaga atatgacgtg aaccatgctt ccgccgatgt tgatgatgag atggacgagg 240
 atgatgatat aggtgatgat ggggatgatg gtggtgatgg agttgaggtg aatgcagatg 300
 aagatgaagg cgcgacctca tactcgtcag agtacagtga ataagagctt ctgtctccgg 360
 tgaccattta tgcaggtagt gatactgggtg gacaataata agccttttgc ccctttttgg 420
 gggcatagtg ggct 434

<210> 4682
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-A1
 <400> 4682

ccgggtcgac gggcaaaccg aagggaactt gcaaaggggtg ggcacaagg gaacgccgac 60
 caaccgacgg attgcagcca ccattagacc tttgtggatg cagttgtggc attatttttc 120
 ccattgaact gccagggggg aatgagcttt aatgctgggt gtgttggtgca cgggtgaaac 180
 gtttggtgtg gatatttacc gtaggcattg ttttgtacca ggtgccttgg taattgtcct 240
 ggtgtggaat ggatggtttg gaattttgga acggccatgt aagcgtgtaa tcctaattag 300
 ggctcaacc tatatccatt cgaaggacac cctaagacgg taattaaatt tgaaccctta 360
 ataaagcctt ttaatatata tttttgttcc 390

<210> 4683
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-063-Q1-E1-A11

<400> 4683

gtaaatgaac tattcgagca tgcaagacag aatgtttatt tgaaggttta gagtttggca 60
catacaaatt tacttgggaac ggcaggtaaa taccgcatat aggtaggat agtggactca 120
tatggaacaa ctttgggggtt taaggagttt ggatgcacaa gcagtattct cgcttagtac 180
aggtgaaggc tagcaaaaga ctgggaagcg accaactgag agagtgacaa cagtcgtaaa 240
catgcattaa aattaatttg caccaaatac aagcatgagt aggatataat ctacatgaa 300
cataaatatc atgaaggcta tggtgatttg attcaactac atgcgtgaac atgtgccana 360
tatagtcact caattcattt aaaggangga tacatcccat cnatacacat cataat 416

<210> 4684
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-A12

<400> 4684

gtaccgtact agaattcgcg ggccgacggg ctaacatatg agtgtttaat ttttttttgt 60
ttgccacaat catccttgct gtacacacct ttcgagtggg acacgcatga attgtgaatt 120
attagaatac tctatgtgct tcacttgtat cttttgagct aggcaatttt gctctagcgc 180
ttcgcttata tcttttagag cacaatagtg gtttttagttt gttgaaatta ttgaactctc 240
atgcttcact tatatcattt tgagaatctt tttaaacaac acagtaattt gcttttggtta 300
taaatttagt cctattatga tagacatcca agagggatat aagaaaaact ttcataatac 360
gtgcattgaa ttccatgaga actttgattc cttataattg ttttgagata taaagatggt 420
gatattagag tcatgctagt gagtaattgt gaattg 456

<210> 4685
<211> 239
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-A2

<400> 4685

ggtcgaccgg gctcggaggc tgatcaagct gaagcccccc gtggagccat gatttttgca 60
 gttgaaaaat ggttccttgc ggtgtaggta ccccttggtg aaacccttga tgatacccca 120
 caacaacggg gaacttgtgt gatcctccgg tctgcccgt acggtgtaca aaaatttctt 180
 tgatggaaat gtgatttggc caaatggttt cagtttcaaa aaagaaaatg aaccggaaa 239

<210> 4686
 <211> 314
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-063-Q1-E1-A3
 <400> 4686

tgatcgccgt cggcacgcta cctctacatt taccacggg attatttttaa accctaaaaa 60
 atggtaatta atggccagtt tggacaagga caatggaacc ggattctggt taataccaaa 120
 atggtaaccc attaaatccc ggaacaataa gtgggtccat taaaatgaga aataggttta 180
 agggcatggc cccatgggca atgggttatt cctaataat ctcgaacgta ntgttacaca 240
 tattcatagt gtgaatacca aaagatgtaa agttgataac gatagtccca catacttgtg 300
 gcactgccgc cttg 314

<210> 4687
 <211> 295
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-063-Q1-E1-A5
 <400> 4687

gaaaccagat gatgggaaaa tgaaaggcat cgcattcatc aaggatcctg atggttactg 60
 gattganata tttgacctga agaaaatcgg ggaagtgact gctgcngcat catgatgaag 120
 tgttgaaact ccaatgccgg taaaatggct tcgcgccttc agaaatgata tgaactcagt 180
 tatacggacc atgcttacat tcttgaccg ctagttacag cgtcatgagc aaagatatca 240
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<210> 4688
 <211> 342
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A6

 <400> 4688

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 gctatagccg gctattttaa actatgatta gagagtgatg ttattttctt cctatgttgt 180
 acaagccaga aacgttttgt gaacggaaac accatcatgg cctttaataa agctacaatt 240
 gaatctttac cattgttttt ctgtaggcat ttgtttgctc tgcttaaaac tgtaaaagg 300
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<210> 4689
 <211> 356
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A7

 <400> 4689

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 atccaaacta caggccggcg cggacgcgag ctagatggct ttggaaaccg aagcggtggc 120
 gtgctcgtga tcccctccca tgcgtgtttg aggagcgtga atccaggggc agcatacgcg 180
 gcgagatccc atcctaggcg tccttccgtg gtggaagatg atggctggta gtggatctgg 240
 tggatcctag cctaataagc tcgaagccgt gatgttgtac tctgctttca tatgaatacg 300
 actacgctct ctcaagaaaa atcaacgtgc ttacttggt gtgatttggg tttttg 356

<210> 4690
 <211> 421
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A9

 <400> 4690

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ctctctagat cggctatgga gtttggagga tgtgtatatg gatttggcgg cgagcgtgc 120
 cgatgcggcc aagtacttcc agggtcagac ggaccatgaa gtggaccatc tattttggac 180
 acaattccat tctcccagac gtccgctttc attgattgac caattatccg aatgggcccga 240
 actgaatagg ttgtccggac ttgccatgag gtctgttggt gatcagctat ggccggaaag 300
 gccaaaactg aacagctatt ttagcttggg gcatcagctc cttgacgtgg tgccgcgcac 360
 taatgcgatg aagaggttgg cgtgcataga gggctcacgg atggcctttg cccgtgttaa 420
 a 421

<210> 4691
 <211> 319
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-B1
 <400> 4691

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 accttcggcc ttgcccttgg tcctggcttc ccttggccgg ttgtaatcca atggaggctt 180
 aacggcccca atttctccaa cggctggcaa ggccttgcgg caacggaagc ctcaaacggc 240
 tgccaaacca ttgaaaaccc gtattcttct ccgcttgggc atcaactgct gcttcttccc 300
 cggctccgcg tcttcccct 319

<210> 4692
 <211> 238
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-B11
 <400> 4692

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 cgcaagggtc cgctcttggg ttcaactgagt gtttgccaac cacatcggat ttgcaacctc 180
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<210> 4693
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-B12

 <400> 4693

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 aagatgtgcy acatgtagag gatcttaatc ccaggtagct aagatgggtgc cctgtatata 180
 caggcgggctg attgtccggg gtcaagccgg acttatgaat atgccgaaat gaaacagcaa 240
 cttgacgagg cagaaaccga catcgcgctg gttaaccaac ggcttgatga ggctcaagggt 300
 attcatactt cttggcgagt attagtaaga ggagttatag gttaatatct taccttgtgt 360
 atgcttgatg cagatgggtgc ggagccggtt gaaggactta aggccgaact tgccaaggcg 420
 aagagccaag cagag 435

<210> 4694
 <211> 306
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-B3

 <400> 4694

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 cacggtgttg aagcaggtgc acccggtact gggaatctcc tcaaaggcaa tgtcaatcat 180
 gaacccttc atcaacaaca tcttcaaaaa cctcgccggg gattcggcca atctggccc 240
 ctacaaaatg aagcccacca tcacgtcccg ggagatcaag acctccgtcc gctcgtcct 300
 ccccg 306

<210> 4695
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B4

<400> 4695

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cttcccttcc aagtgggcag gttgagtcg gcttaatacc agagggccca tttgcgctcg 180
atggagaata tgggtgttta cagcacctcg agcagttaat aaagaacaag ggattctgtg 240
tggtttgtgt tgctgaagct gcaggacaag agttactgca aaactcaggt gcaactgatg 300
catcaggaaa tgcaatactt aacgacattg gtgttcacat gcaacaaaag atcaagacgc 360
atttcaaggg catcggtgtc catgctgata taaaatacat cgacccgacg taaatgggtcc 420
gggcttgtcg tgccaatgca tccgatgc 448

<210> 4696

<211> 341

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B5

<400> 4696

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ccagtacgtg ttcttgtttt tctgttaga ggtctttcca cagttccttg ttctagtgtt 120
tgccctacac atgttaggat ctacctcata tatgcatctt gatctactgt gtgctcgata 180
gatgatcggg tctagctcct atatgcacat gttatttacc ttcactttgt cagatcgcat 240
gacttgtttt atcactgcta tactagtcac gatttatcta gtaattctgt tatcatgatc 300
actcgataaa attgctcata tttccaacat actcactcgg t 341

<210> 4697

<211> 170

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B8

<400> 4697

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gcgtacttcg gttgggttca tcgagtatac agccgtgtca cagaacccga tcctgatcat 120
tgctgctttc atcttatgtt cgcaatatcc agattgcact cctacattct 170

<210> 4698
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B9

<400> 4698

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cactgtgctg ataatgcgat cgagggcctc gatcaactgc acaaacta tgcttccctt 120
gtactagtac actacagtct cagatgatga taacgcgaca gatatggact gtgctttag 180
taacaaaata tgggtgctgg ggctgcactt aagctttacg agagtacgac tgaccctata 240
tgatgcaggt gtgctctctt cgaaaatata ttgtctctc caatgctttt gggatggatg 300
ggaacatccg gggccagtgg tgctgcctca tcgcgtttgg ctgcttccca cacttggtta 360
tctccatgac cctgtttcaa gaatggggat gtacctagtc agaagtcac 409

<210> 4699
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C11

<400> 4699

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tcgacggcaa cgacaccgag ctctctctcc gctccgccgc cctcatcaac cagaaatgcc 120
atgtcaagaa caaggatata aggaagttct tggacggcat ctacgtcagc gacaagggcg 180
ccatcaagga ggagtagaga gccggaaacc gtcccgccca ccagaagccg tgtttctgcc 240
tgccgtgttt gtttcatcgt gtttgtgtct gtctgtcgtc gtcgtcttcg tgattttgaa 300
ctttctctag actgaatttt gtagcggagt taaattttta gggatgtgcc gtggaacatg 360
ctatctttat tgttatcctg cgtatcgtcg ccgccgcgag aaccgggtgcg acgcttatct 420
agccct 426

<210> 4700
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-063-Q1-E1-C2

<400> 4700

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 gccatgcatg caatgtggaa caaggaaggc atccaagggt tcttcaaagg attgcatgct 120
 cagatactaa agacagttct aagctccgca ttactgctga tgataaaaga gaagatttca 180
 aagttcactt ggatctcgct gcttgcgctg cggcgatacc tctttgtttc tcggaagaga 240
 atcaagagtg cataattgta ttatatattt cagacctgag aaaaccagtc taatcgacca 300
 ctggtatttc aagatctcat actaccaa atacagaagta cagaagcgga acaacacgat 360
 tatcttgaga gcgcatgga atgttctgaa taaatttact tggntttttc 410

<210> 4701
 <211> 281
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C3

<400> 4701

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 agggcacaaa ggccttcaca aatttaacct ctcccaaggc ttaacctccg tttctcaacc 180
 cgttggattc ggtaggtatt aacctgcagg attgtgtcct gaatgtgtaa ccttggtgctg 240
 ctggtgggtc tgaagaaata ttcattgggac tgcttaata a 281

<210> 4702
 <211> 369
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C4

<400> 4702

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gacctcctag aggaggagag ggaaatggcg atgatcagat cgaccatcta tcagcaagac 120
ttgctgcaat tcaatgctaa aaatgtgaaa agccgagcct tcaagaaagg aaatttggcc 180
ctccgagtgg ttcaacagaa accacacaaa cttgccccaa cttgggaagg tcccttcac 240
gtcaccagag tctccacaa tggagcatat cacctctaca aggttgatcg ccagatcgac 300
gagccacgag cttggaatgc ggaactattc cgcccccttt aaacttgagt tctcccttgg 360
acgggatgt 369

<210> 4703

<211> 476

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-063-Q1-E1-C5

<400> 4703

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acctttttta ctatctcttg ttgatacaca tcccccgat tctcagtaca attgataagg 120
atgctgacgt attggcatgt ggccacgtca gaatgttgca catacctgga caccaggggc 180
ttattacaaa gggcactgtt tatgcccgat ttacgccata nagaccgaat accttaagga 240
gtgttcggcg ttgcgagttt ggccttatat gcatcagctc cgaatcatgt cattgggtcaa 300
atatttgggtt tgcccggatc ctgtgttttg ctaccttatg ttccactcta ttggctaagg 360
cggcaccagg agaactactg ccaatgttgc ctggttcatt tcgacgagca cctcagtaga 420
aaaaaccgaa aactgactgt catgatatag cgtgagacta gtcaaact cgatga 476

<210> 4704

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C7

<400> 4704

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 gggtaggagc catggcggac cagctcaccg acgaccagat cgccgagttc aaggaggcct 180
 tcagcctctt cgacaaggac ggagacggct gcatcaccac caaggagctt ggaactgtga 240
 tgcgctcgct ggggcagaac ccactgagg cagagcttca ggatgatgc aatgaagtgg 300
 atgctgatgg caatggaccg attga 325

<210> 4705
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-C9
 <400> 4705

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 gtgtcctgat actaattatt tgtttatggg ggattatgtg gatcgtggat actactctgt 120
 tgagactgtt tcgctcttgg tagcactgaa ggttcgccac ccacatcgga ttacaatcct 180
 ccgcggaaac catgatagtc ggcagatcac acaagtatat ggattctact atgaatgcct 240
 acgaaagtac ggcaatgcaa atgtatggaa gatattcaca gatctttttg attatttccc 300
 attaacagcc ctggtggaat ctgaaatctt ctgcttgcac tgtggtttat ctccatcgag 360
 tgagaatctt gatagtgtgc g 381

<210> 4706
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-D10
 <400> 4706

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 cgccgagtcc ctccgtcccc aacagatcta cgcgcgaggt tcggttcggt ctccggagct 120
 cgagacatgg cggaggagaa tgccccagtt gaggttgctg ctccggttgc ggccccctacc 180
 ccagttcttg gagagcccat ggacttgatg actgctctgc agcttgtgat gaagaagtca 240
 agcgctcatg atggacttgt caagggactc cgtgaagctg cgaaagcgat tgagaagcgt 300

gctgctcaga tctgtgtgct tgctgaggac tgcgaccagc ctgattacgt gaagctggtg 360
aaggcactgt gtgctgagca caatgttcac ttggtcactg tgccctagtgc caagactctt 420
ggcgagtggg ctgggctttg 440

<210> 4707
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-063-Q1-E1-D11
<400> 4707

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gccttctcca caggggagat ggcggcggag gagtgccgga tgagggtcct ggagaagttc 120
agggagctgg acatgctgga gatgtgccac cccgatggccg agcaaacggc caccgtctcc 180
gtcccgetgc tcctctcccg gctgtaaaca gtcgccccct aaactaccta cctattgtcg 240
cggcaggttc gccggccgtt cattccagtg attgctcgga gaaggcagcg tgggagcaat 300
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ataaaattac tgctgggtaa taaaagattg tgggcgtctg gtatgtatac tgtcagcgtg 420
atgcgggggt t 431

<210> 4708
<211> 129
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-063-Q1-E1-D2
<400> 4708

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ggccaaaaag aaaaaaaga aaaaaaggc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaccggccg 129

<210> 4709
<211> 213
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-D4

<400> 4709

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taaaaacctt gaaccaatta aaaaagggtga aaatttccaa aaaaaaggaa aaggtcctta 120
aggtggaaag gccttcccca atgaagaaag gtgcaaagga aaaatttaaa ccgaaaaaca 180
ataaaaacct ttaaggacaa gttggaaaac ccg 213

<210> 4710

<211> 470

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-063-Q1-E1-D6

<400> 4710

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atttgatatg tgggtggacc gtgcttaggt gttgttctta cttgaacaag cctectactt 180
atgattaacc ctcccgcaag catccgcaac tacgagaaaa gtattatgaa taaattcaaa 240
ccatagcatt aaactctagg atccaatcgg tcccttatgg aatagtgcac aaactggggg 300
ttaagtttct gtcactcag taaccaccca tctatttact attccacaat gcattccctt 360
acgcccacaa atggtgaagt gtcagtgaat cgatgttcag atgacaccac taagggaatc 420
acaacataca tactatcaaa acaatcaaca catatcagac tcacattaat 470

<210> 4711

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-D7

<400> 4711

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ccgcgcagct cgcgggcaag gaggggttcg atccaatctt tctttccact tctctctgag 120

tcctgaacta ccaacgcggc tgtaaattctc tgccatcgcc gtccgcgttc ttcctcatcg 180
 caacatcgtg cccctccgca atatttgccc agtgggttct aaggtcaaag accagagtat 240
 aaaataaagg tgggttactg ttaatatctc atacaatgga gtccttggtg aagctgtcct 300
 atttgcttga gccggcgtca cttgctctca tcgtgacggc tgtttcagtt gcctatgcat 360
 cagcgtctcg tgctc 375

<210> 4712
 <211> 478
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-D8
 <400> 4712

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 catcctactc cctcgccctag ggactcctcg ggtatagaga cgacccacgc atcgggtgcag 180
 acgagtccca tcaegtcttc acctcttccc gtgcaacacc agcctgctcc acctccacca 240
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 atcatcgatg gaggtccaac ccgtctgcct cggaccttct actctccggc cattgcacct 360
 gagcgccgac acgagtagtt cgccattggc tttgtcgagc ctccgccgcc acctggacag 420
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<210> 4713
 <211> 109
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-E1
 <400> 4713

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 gatattcata acattcatct ccatcatcat aatcttaaca gcaatcgcc 109

<210> 4714
 <211> 431
 <212> DNA

<400> 4716

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gacagttag taaaactgaa aaaagataac agaggaagac agatgttgta gtaaggtgcc 120
caaccaacca aaaggcacca aaagaccttt taattttttg caaaaaggca ccaaaggaat 180
tattacagga gaaaccatgg aatatagacc aaatgttata cctaaccaa ccaaatggta 240
aaagccccag gatgtgtacg ggtaatgaaa tcaagggccc tcaatgcaat tatcaccatc 300
ccaatatggc accactgtat tcaagccaaa ggtgagttga aaatacaaaa agggaattcc 360
aaaaaaaaaa aaattaattt tt 382

<210> 4717

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E5

<400> 4717

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gtgatggta tattgttgaa ttcattcatg atgctactga aaattattat gagggaggaa 180
tatatgcttg taggagttgc aataatatca agtttcctct ctacatgttg aaaatcttga 240
agtgttgctt gctttacctc ctatgcaagt tgattcttgt tcacataagt tgtttgcctca 300
caaaatccct attcatagga agtggggttag acttaaagt gctagtcata ttcttcatga 360
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<210> 4718

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E6

<400> 4718

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agggtaggag catacccatc aaacggggcca agatgaagga acaagaggtc ctgagagcca 120

ataggcctct actggaccag tacaatgaaa tcggtgggca tcccgacaag agacagcggg 180
tctgcgacaa tgccgagctg ccaaaggccc tgcagcgggt tgccaagaac aagcaatcat 240
gatcttggtt atctagcagt ttgtgctgta ctatcatcta tcatgtatct ggcaggtagt 300
atttgagtcc atgtggacat gccacatgag acatcgggtg gaaaggatgc aacaaatttt 360
tgtctcgaaa taacttgatg ttctagttga tatttagctc ataaatcaac atg 413

<210> 4719

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E7

<400> 4719

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cactacttca acaccgacct attctagcat gaatcttctg ccgtgaggat ttgatgcagc 180
aagggccatt tgtttgacag aaacagagtg gttaccgcaa gagaggtaca aatcaaggac 240
cgaggaggga cgaggcggc tttgatctaa gttgggtcac tttctatgaa tagatgatgt 300
gattgctttg ttattttggt taattaatag aaaaattgat gag 343

<210> 4720

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E9

<400> 4720

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ctacacctga taggaaagga catattgcgg tttcatgcaa tttattggcc aacaatgtta 120
atgtcagcag ggataagcgt tcctgatgca gtttttggcc atggaatctt gacagaggat 180
ggcatgattc tgggaaactc attaagcaac atacttgta catatgatct ggtaggcaaa 240
tttgatccgg atgcgattca ggactacttc ctgcaagcat cataccatgt gaatgatggg 300
gacgattcaa aacaattttg catccatata gtcaatgcac atctttgctc cacaattgga 360

aaccttctga atcgattact tggactccta ca

392

<210> 4721

<211> 171

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F1

<400> 4721

gtcgaccggc tgtcccaaca gattccaagc caggaggagg tggtccttgg aggcaccgca 60

aggcgacctc ccggactcca ggcgcaaagg ggataaaacc cccaagggtc ccgagtccgg 120

ccttgacccg gaaaccttgc cggaacctca aagggtcccg gatccaatta g 171

<210> 4722

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F12

<400> 4722

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atgtcgagat agacatcaac agtgacgacg acgacctgga gtacacgatg aacaagatgt 120

ctataacccc gcaccactct ttcttacacc agatggccat ggacagcgac ggcggcctca 180

gcatgccagc gaggatcaga ccatcgacaa gccctccgtc gcggtgggcc atgtcaggag 240

aatcaccata gatggaagaa acagctggat acttggggct gtacaaggag ggtatgactg 300

tcaaactgat acggggagct tagttttag tgggggtcaaa gaaccattc atttgcagtg 360

tattcagccc aagta 375

<210> 4723

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F2

<400> 4723

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aaggaaggag gcgcgcaccc cccctctggt ccgaattgga caaggggtgc agcccccttt 120
 tccttctccc tctccccctc ctctcttctc tctactcaa acaaggaaag gaggagtctt 180
 actcccgggtg ggattaggac tcccccttg gcgtgccctc ctcttggtc ggccgcctcc 240
 ccccttgctc ctttatatac gggggcaagg gagcacccca tagacacaac aattgatcat 300
 tgatctctta accgtgtgcg gtgccccctt ccgcatatt acacctgat aatatcgtaa 360
 cgggtgcttaa gcgaaaaccc tg 382

<210> 4724
 <211> 482
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-F6
 <400> 4724

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 agtgaaaatg ttaccaatat ttagggcttg atgagacgaa gaagtgggct ttggattcac 180
 cttaaaccga gttgcgcgca agaagttgtg atagtttttc tgccagggtac ctatctgtga 240
 aatgttttct gcaaacaagc ccctgactga gaaaactgaa aacgcattcg ggaataatac 300
 gctttctgcg taagaaaaca tactttctgc cgtagtacat caaaaatatg cttttcagtg 360
 aggaaaacac atttgttcct gaagaacaac tgaaatgcgc ttttaggagg gagagacgta 420
 tcttacggag tacgcttcca cttaaagac gtggcagtggt cggggccgct tcctgtctgg 480
 ct 482

<210> 4725
 <211> 198
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-F7
 <400> 4725

gttatcataa tgaaacgctc tacgaatgtc acattgccat tgcattgatca tgtagtgtga 60
 catcatattt gtggcaaagc caccaggctt aatttttcat acatgtcact cttgattcat 120

tgcacatccc agtacatcgc tggaggggatt catatacatt catatcatgt tctagttccg 180
agttgtcatt cacgagtt 198

<210> 4726
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F8

<400> 4726

ggctggacgg gactaatcaa taaaagattc ttcacaaaaca ggcccctggc tagaaaaaca 60
aaaaacacat tatctgagaa tacgctttca gaactgagaa atcatatttt gggctgaagt 120
gtaaagaaaa tacgctttct ccaaagact acgtatttga ccaaaaacca tcttgatctt 180
ggcaatctcc agcaagcctt ggccagtagg gacgctacca ctgtctgtgc ataagtgagg 240
gtataaaata cccatgtttt gtacactgac aggagcccca tacacattgt cgaagcatcg 300
ttgggctagg cccaacaat gacacaaatg tggcaggaaa ctaatgttgc aattttagtc 360
atgatgattt ttctgacgca cgtccagtc actcattaaa tgtgggtcgt tggaacttgg 420
actattgtgg ttattccacg gtagtgcgcc tgtaaaagag cttgccgagg taagtgatac 480
at 482

<210> 4727
<211> 89
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G1

<400> 4727

ggtcgaccgg cgcttgacaca ggaatacaag cgaatgggta aggatccac acagggcatt 60
tcttgacatg ctctagcac accttgggc 89

<210> 4728
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G2

<400> 4728

gtcgaccggg cgcacggtgg aagatatgtt ttatagaaac tattgatatc tcatgcttca 60
cttagattat tttgaaagtc cttaaaagca tggtaatttg cttaaagtct aaaaaggctt 120
ggaaaataag attaataata aaactttctt atgagtgtgt tgaatactat gataagtttg 180
atacttgata attgttttga gatataaaga tggatgattt aaagttgtgc tagttgagta 240
gttgtgaatt tgagaaatac ttgtgttgaa gtttgtgatt cccgtagcat gcacgtatgg 300
tgaaccgtta tgtgatgaag tcagagcatg ctttattttt tgattgcctt ccttatgagt 360
ggcggtcggg gacgagcgat ggtcttttcc taccaatcta tcccc 405

<210> 4729

<211> 215

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G4

<400> 4729

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aggggaagac gaggggcacg aagaaggcca gcaaggccaa gaagggcgtg gagacgtaca 120
agatctacat cttcaagggt ctcaagcagg tgcaccgga catcggcatc tcctccaagg 180
ccatgtccat catgaactcc ttoatcaacg acatc 215

<210> 4730

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G5

<400> 4730

cgggtcgacg ggatatccgc attagatcgg tgtgcaaaat atagctgtta catctgaaca 60
gagaactgtg ctatccatta tgcctataat caaatattag ttcttatgta gttccatcac 120
atcatataca ccaggtttct caagctctac agttagtgct ttatgaaaga ttgccagtga 180
cactaaggtc agggatttga ggtccctgca gacatctact cgatctactt caagtttcga 240
ttgtacacat tcgttgagtc attcatcgga attatcatgc tcttctctaa tatcactacg 300

atctaccata tcttctaaga ctactocaga actgttttagc actgagactg aata

354

<210> 4731

<211> 476

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G6

<400> 4731

ggctagccac cgagtcctac catccgcccc tcgctgccgc tgcgtctcgc ctccaccacc 60
ccacttgccc ccggactcag gaggatcgtc ggagatgtcg gacaccgatg agcaccactt 120
cgagtccaag gccgactccg gcgcctccaa gacctaccog cagcaggctg gcgccatccg 180
caagggtgga cacatcgta tcaaggcccc tccctgcaag gttgttgagg tctccacctc 240
caagactggg aagcatggtc acgcaaagtg tcaacttgtt gccattgaca tctttaatgg 300
aaagaagctt gaggatatcg ttccttcctc ccacaactgt gacgtcccc atgttgaccg 360
ccaagattat cagctgattg acataactga tgatggatat gtcagccttc tcaactgagag 420
tggtaacact aaggatgacc tgaagcttcc cactgatgat gttctgcttg gccaga 476

<210> 4732

<211> 486

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G7

<400> 4732

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cgtaaccatg gtcagtgtgc tctctgcctg tgctgtcctg ggtgcacttg agatgggcaa 120
gtgggtgcat tcatacataa ggagaaagge cttgcccctt acagtgttc tcggcactgc 180
gctggtggac ttctatgcaa agtgtggatg cattgaagat gcagtcaagg catttgagtc 240
gatgcctgtg aggaattctt ggacgtggac agccttgata aagggcattg caagcaacgg 300
aagaggcaga gaagcgtgg agctcttctc ttccatgcgg gaggccaata ttgagcctac 360
agatgtcaca ttcatgttg ttctcctagc ttgcagccac aactgcttag ttgaggaagg 420
tcgccggcat tttgatagta tgaccagga ttatggcatc catccaagga ttgagcacta 480

tggtctg

486

<210> 4733
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G8

<400> 4733

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gagcccatcc ccgtttcaga aaccggttcc tcgtcgtcgc acgaagaagc cggacgaaac 120
ccgctcgaag agaaacgagg accgtaccgc taagaggagc aggagcaagt gaccactcgt 180
gttggtgatg tcgttttagtg caactagttg tgagcaagaa cttgtatgct atgctagtga 240
tgtctatttg gtactttcaa gctttgttgg tgatgtcgaa ttgctacttt caaactatgt 300
tcaaattatt tgaaatgtta atttgctatc tacaatgtat gcgatcatcc tattttgaat 360
tacaacaat atttgttggt atgttttttt ttgattgat aagaccaaga accaatttag 420
aagttaactg gcacataccc tactgccgga cggcacggag gtaggtgtag acagcctacc 480

<210> 4734
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G9

<400> 4734

attcgcggtg cgacttaatt ttgaatcaca acgttgataa acacatagta agtattcttg 60
atgctggtaa accggaattg agatcttcat ctcatattc gggttacata aaccagaagc 120
atacttgaag gcttgtaagt atgcaatcat ggttacatca aagacataat tgagggccag 180
tctttagtga ctttggttca tattccgggt tatatatata aggtctatga ttcccgggtgc 240
ggtaagccgc ctagaggctt gtgacttggt ttctatgcag gatgggttaa gacagctatt 300
cgagcttaag gaaaataact aatcaattat aaccggagg aataagaaga agaagcttca 360
atggagttaa gcattcaaca cgtgcacgac ggcacgaaaa aattaagtgt ttatcctact 420
gtattacaag actccctgag tccaa 445

<210> 4735
 <211> 320
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-H1

 <400> 4735

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ggtcggaaat aaagggtcga ccggaccctg atgcgcaact aattaacaac ccaacttaag   60
ggcccaactg cacattttta gttatccaag ctcggttctgc ggaaggatat aaagaaccat  120
gggaacccta caagtcataa cccaaatttg gtgttgaaca attttacaac gtgccttggg   180
aatcctgttg ggaggatgat acaatctctt ttccctcaag acccaaattt ccgtaggcgc   240
caatttgtaa cttcaacat tcagcgagac tataaatttt tccgtcatca aaggtaaccc   300
tttgaggaaa aagaaaagaa                                     320
  
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<210> 4736
 <211> 412
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-H10

 <400> 4736

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cggggcacat aattgatggt tcggtagtgc tactcgtagc gtgcatgcat gctggttctg   60
tgggcgctat acgccgcgcg tacgtacgtt tggagaactc gatttgtttg ttgtgtttgt  120
cgcttaatta cgtcgtagg tccatctctg tcggtcggtc gtgttaagtt cttggttatc   180
tgtagtagtg gtgcatgttc ttgaggcata tgaataatgc tagatgtacg tgtcagcttg   240
tgccgtggta tgcaatgatg aaatgaatga agtattattg taacataacc aacataaccc   300
aaaatacatc atagaaaata gaccataaca gtaataaaaa aaatcagaca aataagttta   360
tagacagaca gaaaaaaaaa aacaggccgc ataaaaaaaa gcgggccccc ca           412
  
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<210> 4737
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-H12

<400> 4737
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ccccgtttgg attctctcct actcccagct tctttgtttc agcgcacgga gttgtcctga 120
acgcgacatc tcctagaagc cagcttcgcg gagcaaaca cccctgtagt gcaaaaacga 180
gaggcaggtc gaatgcaact tcaaaaatcg aaagaggcgg agttggacgt aattacttga 240
tatgccactg ccaagtgact ctagggcacc gtaccggttc aatcaatgtg tttatctccc 300
cgatacattc tctcccatac gagaaaccac tctaattggc ttcacgcttg cttactgggc 360
tgccggccga cgcagacgag agcaggagca gccgccgttg ccgaacgcat cactagctcc 420
aaca 425

<210> 4738
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H3

<400> 4738
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atccggttgt tcgacgtttg tgattgatgt caatattctt aaaagggaac tcttgggttg 120
catatggaat agttgtcatg tctttctcgg actattcttt tgcttgataa gggatctgtc 180
cgaattcagc tgactgtcta aaaattgcac tggtttatca catattaatg tcgatcttta 240
ccaaaatatt agtccttaga agttaagggg gagttttcgg tgaaacattg tggaaagtcc 300
gatttgatta tatggctgag actgttcagg gttgtggcca ctcaagataa ctcacacctg 360
tgcaatgcc a tccccgtaat ggacagagct ttgggggaat aattcggaat tc 412

<210> 4739
<211> 147
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H4

<400> 4739
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aaactcaacc gctcttggtc ccatttttgg gtcaagctag ggaggcgctc gacacagcga 120
acaaggcaac cggacttata atgcttg 147

<210> 4740
<211> 491
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H5

<400> 4740

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gagggccttg ttgagtctga agactttgtc aggattcttt ggatcttcaa aacctggggg 120
ttgagcaaca tatacttctt cctcaagctt accattgagg aatgcacttt tcacatccat 180
ttgatataaa gtgatatcat gatggtagt ataagcaagt aatatgcgaa tagcctcaag 240
tctagcaaca ggtgcaaaag tttcatcgaa atcaattcct tcaacctgtg tgtagccttg 300
agctacaagc catgccttat tcctcaccac aaggccgttt tcatattgct tgttgcggtg 360
gaatcaactt tgtgccaatg atattgtgct tgagaagatc tggacgtttg accagttccc 420
agacattggt gagctcaaac tgatgtaatt cttcttgcac ggctgaatc cactcaagct 480
ccagaaatgc t 491

<210> 4741
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H6

<400> 4741

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ttctactact attttctcgc ggttgatgag agagactcgg aagtgaattt gtataccgga 120
agatttttgt cagccgtgca actcgttgcg cctcttgata gaaaaagtag aaattttgtc 180
aaagtcattc tatatgctta gcagcagaga tgatgtacga taccattaaa aacccttctg 240
aatgtttgtt gatgctgtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

aaaaaaaaa aaaaaaaaaa aaagggccgc ccaaagggtt caaagttaa aaaaaacggg 420
 ggggcccta aagggtcccc ctaaagggtt cccgaaattc aattcaa 467

<210> 4742
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-H7
 <400> 4742

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 ccatgaaatt atcaagcaat ttggcataat catatccgat actgttcttg ataacaaga 180
 cgcagggtct gatgacgatc atgacgatga tgaagatgag gatgatgaaa ctggtgatgc 240
 tcatgatgat gatgccgatg ctggagagga cttctcgggt gaacactgag atgacgatga 300
 cgaggatgat gaccctgacg ctaactgtga tgatgctgga gcggggagcc atgatgatga 360
 tggtgactac 370

<210> 4743
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-H8
 <400> 4743

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 ttgctttgat aacttctaga tttttgcaat aagtatatga gttctttatg actaatgttg 120
 agtccatgga ttatacgac tctcaccctt ccacctttgc tagcctctct aataccgagc 180
 acttttcgcc ggtatcatat acctaccata taccttcttc aaaacagcca ccatacctac 240
 ctattatagc atttccatag ccattccgag atatattgcc atgcaacttt ccaccatcta 300
 gttcatcatg acacattcat cattgtcata ttgcttagca tgatcatgta gttgacataa 360
 gtatttgtgg caaagccacc gttcataatt tcttcatact tgtcactctt gattcattgc 420
 atatcccggt acaacgccgg aggcacccat at 452

<210> 4744
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E1-A11

 <400> 4744

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gatgaaaaga aacccgatat cacgaaacga ccacacactc ctattggaga tgaggtggaa  120
tgcaagaagc caaagatagc agaaggctca aggtgccaaag gagaagaacc tgaggctgga  180
gggataaaga attcctcctg ggtctgatga caggggaatg cagtaaacac cagaagcatc  240
aaaactatga tctggaacag tctcctgaat aaactatctt ctggattatg aatgaattct  300
gaagcatggg gctataagtg aattatgtaa catggatttg taactatggg ggatgttaag  360
ttaacgttct atcag                                                    375
  
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<210> 4745
 <211> 312
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E1-A9

 <400> 4745

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caataaatca gggagcgctt gggatggccta cagtgcgtac gtttcggata ttgatttctt  120
cgtggagtct agtggttcgt cgtgtgtggt tgggtgtagt tggttggttt tgtagtggtg  180
agtgcgctcg gggatgccgt tactcctgtg tgtgtgtcaa gtgttgccac ctgcgattcc  240
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cacggccgcc ta                                                    312
  
```

<210> 4746
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-001-Q1-E1-D10

<400> 4746

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tgctgcccgc tgatgacgac ctggagtagt ttaggaggat cccaggcagg aggcctgcgc 120
ctctttcgat ctgtatccca gtttgtgcta gccttcttaa ggcaaacttg ttttaacttat 180
gtctgtactc agatattggt gcttccgctg actcgtctat gatcgagcac ttgtattcga 240
gccctcgagg cccctggcct gtattatgat gcttgtatga cttatttatg ttttagagtt 300
gtgttgtgat atcttcccggt gagtcctga tcttgatcgt acacgtttgc gtgcctgatt 360
agtgtacgat tgaatcgggg gcgtcacaag ttggtatcag agccgactgc ctgtaggaat 420
cccccttc 428

<210> 4747
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-E10

<400> 4747

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ttgttcaagt aagaacagta gctaagcacc ggtccacca catatcaaat tatcaacgta 120
gcgaacacaa atcatatcaa catgatgaaa gtgactggat gaaatgcccg tgtaccctca 180
agaacgcttt gcgtaatgta agagatcgtt ttggcctgtc ccttgctca aaaggattgg 240
gctaccttgc tgcacgtctg ttacgagtaa cagtacgtgc tcgtgacaaa atatcttgct 300
atcgaaccac gatgttaccg acaacttcag cacttgcata cattcccttg ctgaagacca 360
cgtgtcacta ccgtttgctc ctactgggt tccacactc 399

<210> 4748
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-F10

<400> 4748

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 taacatatgc ccttggtcag cgcacgttaa ctttgacccc gtagctccgt tttgggctg 120
 tagcatatca aattgttcac ctggatatgc acttcatttc attccattgt accatattca 180
 tttgagggtca tcttgatgcc ctaaagtctg ttgcaagagt gctatgtaat gttagtttca 240
 gattcttacc agattatcga catttggtcat ttttgccatg tttaatgatg aggacatgac 300
 taccttggat atgacaaaaa atattgcata tatgcatatt tgtcagggtga tttctagtgc 360
 aaactattca ataatttatt tatgttatcc agaacaaaaa tacttcacac acttttgtgt 420
 tttgtctaatt tgcagggtga tgggacattt gtac 454

<210> 4749
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E1-F11

 <400> 4749

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 aatccatttt cctcataaca gatgcccttg ttcaccgcat cgtaacattg caccgctgc 120
 tccgtgttgg gcgtgtagca taccaaattg ttcactctga gatgcacggc agttcgggtcc 180
 attgtaccag attcatttga ggtcagcttg atgtcctaga tgctgttcca agagtgttac 240
 gtggcgtcat tttcatattc ttaccagagt aacgacatat tgtcacttct gccatgttta 300
 ctgacgatga catgacgaac ttggatataa tcacacatag ggcatatcat catatttgcc 360
 acgtgatttc tagtgacacac tatt 384

<210> 4750
 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E1-F9

 <400> 4750

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aattatgctt ctaatgccta tgttaaacca tatattgaga aattcaacgc tgacgaagaa 120
gagactaata ttttgcagga cgctatggaa gaagaaattg atgagactgt gagctcattg 180
gatgaaagag atgatgagga gagcgaagaa caatggatga agagcggatt agctaccctg 240
gtccaccttc taatgagagt aaccctccaa ctcatatatt atttaattcc ccttcgttct 300
taccgaagga tgattgcat gatgattgct atgatccctt gaatttggtt gaaatatccc 360
tttttgatga tgctttctat gcatgtggcc atgatgcaa tatagattat gcttatggac 420
atgaacttgc tataatcctt aggtgaaaca tgaaattggt gc 462

<210> 4751
<211> 314
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E1-G10
<400> 4751

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agctcacgcg tcacaaatgc ttttaggaac gatgttggtt ggcgtctttg ttctagtga 180
tactgtaaac agcttaatat atgtggaact tgcgagactt gttaaactga tgagagtgta 240
tgtgcaaaaa aaaaaataa tttaaaaata tactatgaat aaaaagtacc tcaaagggtat 300
ctaaaaaaga acaa 314

<210> 4752
<211> 442
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-001-Q1-E1-G11
<400> 4752

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catcagggat atactagtaa ctttcatatg aagtgcactg aatactaaga gaagtgtgat 180
acatgataat tgttttgaga gatgacgatg gtcagtggcg gagccaactc aagtttagag 240

ccggggcaag atctacatgc tgccaaatta cttactttct acccaaaca acgtccactt 300
 cacccaattt tctctactaa agcttcatgg acttgcacca agggaacccg ggcaagtgcc 360
 ccagcgtgcc aagttctgtc accgccactg aagatgggtga tattaataatt gtgctagttt 420
 agtagttgtg aatttgagaa at 442

<210> 4753
 <211> 458
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-G12
 <400> 4753

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 gagggatata ataaaaactt tcatatgaag tgcattgaat actaagagaa gtttgatact 180
 tgataattgt tttgagatat gaagatggtc agtggcggag ccaactcaag tttagagccg 240
 gggcaagatc taagtgtctgc caaattactt agtttctacc caaacaact tccacttcac 300
 ccaattttct ctactagagc ttcattggact tgcaccaagg gagccccggc aagtgcccc 360
 gctcgccagg tgctgtcacc gccactgaag atggtgatat taaagttgtg ctagttgagt 420
 aattgtgaat ttgagaaata cctgtggtaa agtttgtg 458

<210> 4754
 <211> 469
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E1-H11
 <400> 4754

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 tgaagagaaa actcattttg gcgaaaacaa aggttgcaaa agcagagatg gctttggcga 180
 aagttcagga atatctctct ccagcagagc ttccaacgga tctggaaact gttacagagc 240

aggagcgttt cctattccgc agaattggcc tgaaaatgaa ggcctttttg atgcttggca 300
ggcggaagt ttttgatggt actgtgcaaa acatgcactt ccattggaag catcgagaat 360
tggtcaaaat tgttgtgaag gggaagacct ttgaacaagt taaacatatt gctatctctc 420
tagaagctga gagtggaggc gtgctcattg cactcgacaa gacaacaaa 469

<210> 4755
<211> 462
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E1-H9
<400> 4755

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agtgcactag tagtagtaca cttgtatcat cttcagcaaa ctactcccta ttccaagaa 180
attgcacgta tagggagagt tgaggcaaaa aacctgcttc agcagtctcc ctaaacccaa 240
aaaattatct cctcaaatag tggagagttg caaccctccc cataaatttt caatgcttgc 300
catgtcagtg cgccgcctcc attgaccgcc gcgccactgg accactgccg cctgctggaa 360
caccaccgct gccgcgggac ttctgtgctg ccgttgctgg aaatccgcgc cgccgccacc 420
tgccaccgca accttgacga aaagatgcaa atgagagaga tg 462

<210> 4756
<211> 370
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A1
<400> 4756

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cagatcaatt caactagcag cgtcacgctc aaggagtacc ttctcaatgt cacttctggt 120
aaactgggca ttgagttcac ccccgatgaa ggatccttcg ccttcatcaa tgccatggag 180
gttctacctg tgtctggcac ctcaattttt gattcagtc acaagggtgga cggtcatggg 240
ttgaaaggcc cttttagcct ctacggcatc gggatcgaga ccatgtacag gctgtgtgtg 300

ggattcatcg atgtactggc taggaaagat gatccaggat tgtggaggag gtgggataaa 360
gatgaccatt 370

<210> 4757
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-A4

<400> 4757

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gcttggtaaa ttggaagatt gcatacaatt gctttagac agcaaccgta tacctgaagc 120
tgcattaatg gcgcgttctt atcttccag caaagtttca gagatttag caatttggag 180
aaaagacctc agcaaagtta atccaaaagc tgcagattct ctggcagatc ctgctgagta 240
tccaaattta tttgaagact ggcagggtgc acttactgta gagcagaatg ttgcttccca 300
gagggggcac tatccttctg cagatgagta cttgaaccat gctgagaagt cagacactac 360
tcttgtggaa gctttcaaaa ggatgcgggt cattgaagaa gaggaaccag tggaagcact 420
ggatgaaaa 429

<210> 4758
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-A5

<400> 4758

aattcccggtg tcgacgggtg actggagctg gtagcgggcc actgcctcat caaggggggc 60
gacgacggcg atgtctcaca catgcttaca gacagcaacc gtgggacgta gactaccggc 120
ctcagccttc acgacacca catccgactt acaaagactg gctgagctag gagctcccaa 180
cacacactca atacgcccgg gtctgcagat tctcaggcag atcgagcaga gtaccccagt 240
aacgtgtgtg actggcaagt tccccttacg ctgtagcatc tgctgacatc ctacaggggc 300
agaccatcct tgcgcagatg agta 324

<210> 4759

<211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-A6

 <400> 4759

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 ttaaaccata acttagcatc accctttaac gagaaaggaa acaacttaag aatcaagtaa 120
 tagcgaattt tttccacatg agcaaataagg gtggctatat catccaattt agtaagatgt 180
 gccacaacag tttcagattc ataaccatag aaaggatcag attcaaccaa agtaatcaac 240
 ttaggatcga cagagaattc ataatcctta tcagtaacaa agataggtga agtagaaaac 300
 ttaggatcat accgcattct agcattcaaa gacttttctt tcagcttagc taaccgtttc 360
 ttaagatcat ctctatcatt acaagcanna gagtctctag cagtttcttc atccataata 420
 taa 423

<210> 4760
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E2-A7

 <400> 4760

gtaccggacc agaattcccg gtcgacggg cagcagaagc tcagaccata tatatgatca 60
 ggggtgtaga aaacgggtgt agggttgcag atcagcaacg caagctgcaa tccgcaagct 120
 gcagtggcag cgtccgaaag agatgcgcgg aatgtacata agtagtgcg ggcggtggaa 180
 cttttgtctg aagagatgat tttttcgtat gtaattgcag gatttgactc tcaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagaa gaacaaaaag 300
 aataaagcta aaaataaaaaa tccataagac atcaaaaaaac ttcaaaaaaat gtcgccaaaa 360
 ttcacataag ggagccatca aataacgggg ccccccaagg ggaaaaacct tgcgttacct 420
 aag 423

<210> 4761
 <211> 406

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-A8
 <400> 4761
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 aacgagcgca agcacatcga cccgctgctg gagtgcctca aggagtggaa cggcgagccc 120
 ctgccgctct gctgagcagc cgacgagcca aggtaacacc aaaggaaaag aaaacacgta 180
 cacacaaagt gaatatagaa gtggttcaag actgtgaagc gggaggttcc tggatatatct 240
 acgtttcatt gtacttagtt aagttgatac tactgttggt ttttctcgct gccgccatgc 300
 catgagcagg cgaggcaggc agcttctcaa acttgtgttg ttgtaacttg tatgatggga 360
 gcttaagtac attactttgt ttcataatac accgtgttat cgccat 406

<210> 4762
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-A9
 <400> 4762
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 gcgtttgggt ggcctacagt gcgtacgttt cggatattga tttcttcgtg gagtctagtg 120
 ttcgtgcgtg tgtggttgggt ggtagttggt tggttttggt agtgtgagtg cgtcgtgggt 180
 gccgtgtact cctgtgtgtg tgtcaagtgt tgccacctgc gattccattt tcattccgtg 240
 cgatgaataa attaagaagg ggtcttcttg acgcgtctag cgggcgcacg gccgcctagg 300
 atgcttagcg agcggcccg cacttcagat aatttcttgt ctctcctttt aactagaata 360
 gtcacttagt agtccctttt tc 382

<210> 4763
 <211> 465
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-B4

<400> 4763

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tgaaaatagc caccatacct acctattatg gcatttccat ggccattctg agatatattg 180

ccatgcaact ttccaccgtt ccgtttatat gacacacatt acttttgtca tattgctttt 240

tgcatgatca tgtagttcac atcgtatttg tggcaaggcc accatcataa ttttcataca 300

tgtcgctctt gattcattgc atatcatggt acacccccgg aggtattcat agagagtcac 360

atcttgttct agttttgagt tgtaaataca tagaagtgtg atgattttca ttattagagc 420

attgtcctag tgaggaaagg atgatggaga ctatgattcc cccac 465

<210> 4764

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-B5

<400> 4764

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ccgctcccgt ctctgtctac tcttttagtta cttagtacta ctaccggtag tggttatccg 120

tctccatttt ttcaccatca tttttttaat cagaaacata gtactacagt acatgtttgt 180

atgtgtgttt gatttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaacacaa aaagaggaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaagggg gcccccaaa ggggtcaaac ttaatttacg ctgaaaggca 360

agttaaaacc cctccaaagg ggtcccaaaa ttaaattcca ggggcgttct tttaaaacgt 420

tggaacgggg aaaaccccg ggtttcc 447

<210> 4765

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-B7

<400> 4765

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcgggcccgc ccaaaggat caaacctaac 180
 ttacccttgc atgcaacttc aaaccctcc aaaagtgcc ccaaatttca att 233

<210> 4766
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-B8
 <400> 4766

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 aagcagggtga gatgacatgg atagggacaa aggtaatact atgaaggaag atagtgaccc 120
 taatagtgc tccaaacggc gaaaaattaa gagagatcag tctgctttag aagctgggga 180
 atatgcacct tctgctccac agcctccgag ccttgaggct ggtaactcgc aatttgaaat 240
 acgagagaga gaaagaaagg gtgttatttc acagcatcgg ccgtcacatg ctgatgacct 300
 ccctaggatg catgccaagg attcaataag caagacaagt cgtagagaga ctgaccaaac 360
 gcatgataga gaacgggaag aggaaaagag gccaagaact gaagcaagaa gaaagcat 418

<210> 4767
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-C1
 <400> 4767

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 gtatatggtg gaaaaaggaa taaactttat tttctgcttg ggaacctcct atgatataac 180
 tagcatggaa ggtgttggga actctaagtc gttttcgttg gtgggaagga cacacctccc 240
 aaaatgtttt tatctctaag ttttttgctt tgagctctgg aacctctaca aatccgtact 300
 tccctctacg aagggccttt ctattacttt gtgaaatttt tattttttaa tttgagtctc 360

catcttctct tataaaagca ccaactttgg aggcactatg atcgtacttg agcatttgtgt 420
gt 422

<210> 4768
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-001-Q1-E2-C10

<400> 4768

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atccacgtcg gcgatggcga gtcggcgccg cgagaccgca gtgagcgcat ctgccaccct 120
gccgctcctc ctgtagccgg cgtgatgacg acgaagatga ccaccgtcgg gaggaccaag 180
accgagatcg tcggggccgt gacggctcca ggaacggcag gggctggggg gagaggggtgc 240
gtcgcagcct ctcccgcgcc ccccgggacg acaaccgcga ccgtggtcga gagcagcaag 300
gagggtcgtga tggcggtcgg cgatgccatg aggaagtggc cccttcgctg ctgctacgtg 360
gtcccggtc ctccagcgtg gtggccgcac acgatgcgga gatggtgcca gtgctcctcg 420
gccgcctgcc cg 432

<210> 4769
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C5

<400> 4769

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tgcgccacca aaggcgaaga agaagaaaaa ggcgcagagg ggggcttgct ccatcttggt 120
atctaatacat cggtagacaa agaacaaggg cgaagttgcc gccatgctat attattgtta 180
cgtcttgctt cagcggagct gcaactctcat ggtcgtcgtc cctccccctt accccaccct 240
aggttaccba ccggcagctg cagcaaggtc tctttgtcga ggcatcgggc gatccatttg 300
tttgatttct cttcttctg ccttggtgatt atctcgtgtg actgacaagt cgtggcaatt 360
taggtaactt gcttagtaga cggtatttcc cgtgtttgag accccgtaaa aaaaaagtat 420

ctcgttggtta tctcgggtcc ataagtagag acatgat

457

<210> 4770
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C6

<400> 4770

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ttctatgata gtttttatta tacgcaactt ggatgctcat cattctagga ccaaatttgt 120
aaccatagca aataccgtga tggttctaaa taacctcaaa ataataaag tgaagcatga 180
gagactagaa atttcttcaa attaagtcac caccgtgctc taaaatatat aagtgaagca 240
ctagagcaaa aactatcaag ctcaaaagat ataagtgaag cacatagagt attctagcaa 300
attctaattct agtgggcttc tcccaaaagg tgtgtacagc agggatgatt gtggtaaact 360
aaaaatgaaa gactaatata atacatgatg ctccaagcaa aacacatatc atgtggtgaa 420
taaaaatata gtcccaagta aagttaccaa tgaacgaaga cgacagagg 469

<210> 4771
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C7

<400> 4771

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atcattctag gaccaaattt gttagcatag cagataccgt gatgttctgg aatagtctca 120
gagtgggtata agtgaagcat gagagactat aaatttcttc aaattaagtc accagcgtgc 180
tctaaaatat ataagtgaag cactagagca cagactatca acgctcacga gatataagtg 240
aagcgcagag agtatgctag cagattctaa tctagtgggc ttcgcccaga aggtgtgtac 300
agcagggatg attgtg 316

<210> 4772
<211> 412

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D10
 <400> 4772

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acgacctgga gtagtttagg aggatcccag gcaggaggcc tgcgcctctt tcgatctgta  120
tcccagtttg tgctagcctt ctttaaggcaa acttgtttaa cttatgtctg tactcagata  180
ttgttgcttc cgctgactcg tctatgatcg agcacttgta ttcgagccct cgaggcccct  240
ggcttgtatt atgatgcttg tatgacttat ttatgtttta gagttgtgtt gtgatatctt  300
cccgtagtc cctgatcttg atcgtacacg tttgcgtgcc tgattagtgt acgattgaat  360
ccggggcgtc acaggttggg atcagagccc actgcttgta ggaaccccc tt          412
  
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<210> 4773
 <211> 193
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D4
 <400> 4773

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aacatagatc atcactcttc tataatgaca cccaatactc tatgcagttt gccatcattt  120
taatacgtcc taaatgtgaa tatccctgta cttacacaac attatcttct ttcacacat  180
ttcccatttt tca                                     193
  
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<210> 4774
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D5
 <400> 4774

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aattgttagc ttgtgattaa cttacagac accgtatatt atgtaaaatg tcctccactc  120
acaccagtc aatttaacca attttctgt gatctattta aagtttgcg tgagggtccga  180
  
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cgagcagaga tccggccggc gcgccatttg ttgtaattgt tgatgtaaac aggagttgcc 240
 ttttgattga gcaaccatcc tgctataagc aacatgtttc tcattcttcc cttctggtgc 300
 cccccaaccc ggcgggctag cttatagttg ttggcaaagg tgtacacacc aatcaacctc 360
 ctcacagtta taataagcag gcgcagtttg ccc 393

<210> 4775
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-D7

<400> 4775

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 tcttctgagg taccttgctg ctgcagttgt tgtcaacaag aggagaagga acatgcttaa 180
 ggaactcatc aaggatcatc agcaggagca gaacagctac aaggatccca tcattgagtt 240
 cctggagtg cctgtatgtca agtatgattt tgatggcgct cagcagaagc tcgtcgagtgc 300
 cgagcaggtt atactgaatg atcctttcct ggggaagcgc gtcgaagaga ggaatggcat 360
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 ctgccgtata catcgctgca t 441

<210> 4776
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-D8

<400> 4776

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 aacttggagt acagtatgtt caacacaaat ataaataaat aatgagttca ttacagtacc 180
 ttatgtggtg gtttttcttt ctttcactaa cggagcttat gagatttcct gttgagtttt 240
 gtgttggtgaa gttttcaagt tttgggtaaa gatttgatgg actatggaat aaggagtggc 300

aaaagcctaa gcttggggat gaccatggca cccaagaca ttcaagaata gccaaaatcc 360
 taatcttggg gatgccccca gaaggcatcc cctctttcgt cttcatttat tggtaactta 420
 acttgcagct atattttaat tcgccacatc atatgtgttt tgt 463

<210> 4777
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-E5
 <400> 4777

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 aagggtgctg ctaggttgct actactgggt gactgttcgt gcagttttcc tagagttagc 120
 tgttcgtgca tcattttttc ctttgtgaat tagctgttcg tgcgtcagtt actcaaaaaa 180
 aaactgttca tgcattcattg atgattgtgg tgaatcggct gaggtaagat tagctcttcg 240
 tgcagcttct gcttgttggg gtcgagttct cttttttttt aagtcttatt ttctttttcc 300
 ttgtatttct ctgttccttc aaaatagaaa tgccgggcat gtcattgcgc atgggtcgatg 360
 aacatgcgat agacacatat ataattcattg gcattatgtt tttaaaagca aaaaatctta 420
 agttgcgcat tgacagtgga cg 442

<210> 4778
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-F5
 <400> 4778

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 gaacggcctc atcggatgcc ccgtctgctg ctgctgatgc tactgttttt ttccgttaca 120
 gtctaccgta ggctaaagtt ctctgctgt tttagatgct tctactttgt acaatgtgaa 180
 gagcatttac agaagactcc taatatatca cggcaagagg ttttgcttac gatcctacag 240
 taataattat caccctcacg aataagttca gtagtagatc catgatgtca ggttttgttg 300
 gtgaagactg aatacaacca tagaaatata aactgagtta atactgacgc taataagcat 360

agttgcggcg gcattgcatc gatgatttac gacgtttcac tttttttcca agcatttttc 420
 atatcgctgt tcac 434

<210> 4779
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-F6
 <400> 4779

attcccgcgt cgacgggact tatataattt tgagagtcct aaacaacatg gtaatttgct 60
 ttggttatga atttagtcct aatatgatgg gcatccaaga gggatataat aaaaactttc 120
 atatgaagtg cattgaatac taagagaagt ttgatacttg ataattgttt tgagatatga 180
 agatggtcag tggcggagcc aactcaagtt tagagccggg gcaagatcta agtgctgcca 240
 aattacttag tttctacca aataaacttc gacttcaccc aattttctcg actagagctt 300
 catggacttg caccaaggga gcccgggcaa gtgccccagc tcgccacgtg ctgtcaccgc 360
 cactgaagat ggtgatc 377

<210> 4780
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-F7
 <400> 4780

attcccgggt cgacgggaag ttacagaatg aggacggttc atggttcgga tcatggggta 60
 tttgcttcac atacggcacg tggtttgcta tagagggcct atcggcagtt ggacagtgtt 120
 acaataatag cacctacatc cggaagggtt gccagtttct attatcaaag cagctaagga 180
 atggtggatg gggtgagagt catctttcat ccacaaccaa ggcatacacg aacctagacg 240
 gggagaaatc acatgtagtc aacaccgcat gggcaatgtt ggcactaatg aaagctggac 300
 aggccgaacg agatccgtct cctttgcacg aagctgcaag acttaccatg agcatgcaac 360
 ttggcaatgg tgacttccca cacgaggaaa tgattggaag tttcttgaaa aatggtc 417

<210> 4781
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G5

<400> 4781

taccggacca gaattcccg gtcgacggac ctgctgctat acatactgga ccaattacta 60
 gagctcgtgc acgccaaacta aattaccagg tactttcgtt tcttggtaat ggttctaattg 120
 ttcatgagaa tatgatgctg cctaaattgg atacatttgt tttgcttaca aatgaagggc 180
 ctgagcttga gaaggatgaa cattggagca agaacaagca tggagatgat ggcattgtgca 240
 aggggaacaa gaacggagtt acaagtgatg atttcaggac tttgaagcca ccataatggg 300
 tgcattgaagc cttggacgaa atatacaaga tgccacttca taaatttcgt tccgaggcta 360
 ttttaggtgc tgcgtcacct tattattggg ccaggcccat gtaatttcga aatacata 418

<210> 4782
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G6

<400> 4782

taccggacca gaattcccg gtcgactcct caggagacgg ctcttcgccc tgggggtcttg 60
 aggggagcag cctgccccga tgtcttgaaa gggtatggga ctcggttggt cctacccttg 120
 gtccattact ccgacaaata ctaagagaag tttgatactt gatgattgtt ttgagatatg 180
 aggatggtaa tattagagtc gtgctagttg agtagttgtg aatttgagaa atgcttgtgt 240
 tgaagtgtgc aagtcccgta gcatgcacgt atggtaaacg ttgtgtaaca aaaatgaaac 300
 atgaggtgtt atttgattgt cctccttatg agtggcggtc ggggacgagc gatggtcttt 360
 tctaccaat ctatccccct aggagcatgc gcgtagtact ttggtttttg atggattgta 420
 gatttttgca ataagtatat gag 443

<210> 4783
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G7

<400> 4783

taccggtacc agaattcccg ggtcgacgga cctgctgcta tacatactgg accaattact 60
agagctcgtg cacgccaaact aaattaccag gtactttcgt ttcttggttaa tggttctaata 120
gttcatgaga atatgatgct gcctaaattg gatacatttg ttttgcttac aaatgaaggg 180
cctagcttgg agaaggatga acattggagc aagaacaagc atggagatga tggcatgtgc 240
aaggggaaca agaacggagt tacaagtgat gatttcagga ctttgaagcc accataatgg 300
gtgcatgaag ccttggacga aatatacaag atgccacttc ataaatttcg ttccgaggct 360
attttaggtg ctgcgtcacc ttattattgg gccaggccca tgtaatttcg aaatacataa 420
g 421

<210> 4784

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-A10

<400> 4784

taccggtcct aaattcccg gtcgacgggg agtccgcatg gtcgcgagg tggggccaca 60
agttaacgtg tctctgtcag tacgcagtgt caggggcaag gcatgttgcg ctcttttttt 120
tcctagaccg aagcaacagc tttgcctttg ctaacaacta gtaaataaaa tttggacaga 180
aaatcccttt tggaggcaga gtcocatgga gaccggtttt tgaaaaattc agagtccata 240
tttttacatg tcaaaaactg agataatata tacatatgaa cgcataatgc ataagtgtgt 300
aaattttcac gatgaaataa gttgatacga ggagtgtgcc aaaaaacaca gatgatgaca 360
ggttaacca tgaaacggtt cagcctttca ggcc 394

<210> 4785

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-A11

<400> 4785

cccgggtcca cgggcagcaa caaaggcagc taacagcaac atcaacagca acaacagcaa 60
 caacaacagc agcaacagca acagcaacag cagcaacaac agcaacagca acagcaacag 120
 caacaagcag caacaacggc aacagcaaca acaacaacaa catcaacagc aacaacaaca 180
 acagcaacaa caacaacaac aacaacaaca acaacaacaa caacaacaac aacaacaaca 240
 gcaacagcaa cagcaacaac agcaacaaca gcaacaacaa caacaacaac aacatcaaca 300
 acagcaacaa cagcaacaac agcaacaaca acaacaacat taacggcaac aacagcaaca 360
 acagcaacag caacagcagc aacagcaaca acaacaacag caagcagcaa caagagcaac 420
 gacaacaaca gcagcaacg 439

<210> 4786
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-A2
 <400> 4786

gtaccgggtcc tacattcccg ggctcgactat cacgatgtac ggggtcttgt cgcgatgat 60
 ccgcatctcc atactcagcg aaaatagccg aacgaagatg tagtgcagcg gatgaagggt 120
 aaacatagca aagacgtcat caaacgcgag gacgatcgta ccccgatgt cgccatccac 180
 aaagcccttg ccctctggca ccttggccac gaaaaccggg tatgccacat ctttctctct 240
 gagacgccgc ttctccaaag aaagaacact gtcgtgcaga ctccgcatag caccggttgc 300
 agcattgagc atatttggtg gtagcatcgc cctaccgcgc acatgcaccc tcctcgagat 360
 atcctgcggt gaacgtggcc cgtctgagc acggatcgta caccgtgccg gctggctcgc 420
 acccttctta atctttcctt tgcgtgcctt c 451

<210> 4787
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-A7
 <400> 4787

ggtccagaat tcccgggtcg acggggagtt taaccaggtt cgggccgcaa gtgacgcgta 60

ataccctact cttactgggt tgtgtgtacc tgggtgttctt ggactagcta caaagtgtgc 120
 cgggtccaaa aagttcgaat ccgcctccag tacgcctcgg gcctcctttt aaagccaaag 180
 gggtcgccac agtggcacac aggaggtgga aagtttgtac tgtatacaag tctatcgctt 240
 ggcaccgtac gacaaaacac atttaatgcg ctgccgacgt gccctcttac tttactgggg 300
 acgacaagga agctcgtcgc atccgccgcc gcttcgtctc gctctgacgc gcgtccagcc 360
 tgactacgca tgcagcgcca tgctgggttg ttgctgagtt ggcgcggtgg cagagtcttc 420
 atggagatct gcat 434

<210> 4788
 <211> 98
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-A8
 <400> 4788

cgcctgcacg taccggtcca gaactcccg gtcgacggag tacacgaata cagctctggt 60
 tgatatcaac ctgtgtctac aaactgaggt actcagca 98

<210> 4789
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-A9
 <400> 4789

taccggtcca gaattcccg gtcgacgggt tggatacatt tgttttgctt acaaataag 60
 ggcctagctt ggagaaggat gaacattgga gcaagaacaa gcatggagat gatggcatgc 120
 gcaaggggaa caagaacgga gttacaagtg atgatttcag gactttgaag ccaccataat 180
 ggggtgcatga agccttgga gaaatataca agatgccact tcataaattt cgtcccgagg 240
 ctattttagg tgttgctgca ccttattatt gggccaggcc catgtaattt cgaaatacat 300
 aagtataggc tatttttaga gtccgtatgt gtggggaaac aagagatagg gttgatttcg 360
 gacccctcca ccaagggcca cgaaattccc cctcttcct ccatatatac aacccttagg 420
 gcatcgttta gactttgggt tttgtttaca ttaaaa 456

<210> 4790
 <211> 322
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-B2

 <400> 4790

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 taagcttctt tttgcggtgt gtttgctgac acagatgaat attgggttta cgaataaatc 120
 taactaagac caatagttac agtcactctg aaggcatgaa tgctagagca ggtctaggtt 180
 tgaaggtctc tgcgacgtat taaattgatt tgggataata tatagggtttt tcatggcaaa 240
 taaatactgc ctacgcttga ggttaatcga ggggtgtcca ttcacaatga cagtaagggc 300
 agtagggcat acagcgtgtt gt 322

<210> 4791
 <211> 472
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-B4

 <400> 4791

acgcctgctg gtaccgctcc gagaattccc aggtcgacgg ggtctcactg gtccatatct 60
 ctttcttttag caacattgaa atcctcttga acctttaggg aatgccgctg cagtctacta 120
 aagaaatcaa acagacccaa ctgctcaact acaaatttct taggattaat ctgtcgcaca 180
 catgcacctc ataccgaggt taaataattc aaaatgattg acgaagctaa aatctaaaga 240
 caacttaaga ttactgaaaa ctgcccaaaa caataatatg actgaattgt tagatggaac 300
 caaaaaggaa attgtattta tcaagtttat taatctgcat gaactaagac agtctccgat 360
 attcaagaat gtagtggctc ttgattttta atcagagata acaaatgacc agatgcgtac 420
 aatagagggga aggagaagat actcacgtgt gtagecgcgt tgaatttgct gc 472

<210> 4792
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B5

<400> 4792

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accttttaggg aatgccgctg cagtctacta aagaaatcaa acagacccaa ctgctcaact 120
acaaatttct taggattaat ctgtcgaca catgcacctc ataccgaggt taaataattc 180
aaaatgattg acgaagctaa aatctaaaga caacttaaga ttactgaaaa ctgccccaaa 240
caataatatg actgaattgt tagatggaac caaaaaggaa attgtattta tcaagtttat 300
taatctgcat gaactaagac agtctccgat attcaagaat gtagtggtc ttgattttta 360
atcagagatt acaaatgacc agatgcgtac aatagaagga aggagaagat actca 415

<210> 4793

<211> 469

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-C1

<400> 4793

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acatgatatg tgttttgctt ggattttcat ttcattttat tttgtttttc tttttgtttg 120
aataaaatacc aagatcttaa attcttaaatt gttagagagt cttcacatag ttgcataatt 180
attcaactac tcattgatct tcacttatat cttttggagt agtttgtcat ttgctcttgt 240
gcttcactta tatcttttta gagcacggcg gtgggtttat tttgaagaaa ttgttgaaat 300
ctcatgcttc acttatatta ttttttagagt ctttagaaca gcatggtaat ttgcttgggt 360
tataaaatta gtcctactat gatgggcatt caagatgggt ataataaaaa ctttcatgta 420
gagtgcattg aatactatga aaagtttgat acttgatgat tgttttgag 469

<210> 4794

<211> 117

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-C11

<400> 4794

taccggtcag gaattcccgg gtcgacggga ttgatacccg aagtcaagat accaacctaa 60
tgtgttcgta gctggtgtgg gtactgatgt cttttgggat cacttcata aacaaaa 117

<210> 4795

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-C3

<400> 4795

cgctgtctg taccggccca gaattcccta gtcgacgggg tctcactggt ccataactct 60
ttcttttagca acattgaaat cctcttgaac ctttagggaa tgccgctgca gtctactaaa 120
gaaatcaaac agaccaact gctcaactac aaatttctta ggaggaatct gtcgcacaca 180
tgcacctcat accgaggta aataattcaa aatgattgac gaagctaaaa tctaaagaca 240
acttaagatt actgaaaact gcccaaaaaca ataatatgac tgaattgtta gatggaacca 300
aaaaggaaat tgtatttatc aagtttatta atctgcatga actaagacag tctccgatat 360
tcaacaatgt agtggctcgt gatttttaat cacagatagc agatgaccag atg 413

<210> 4796

<211> 471

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-C4

<400> 4796

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gcgcccacat caacctcaag gtcaagggcc aggatggcaa tgaggtgttc tttcgcatca 120
agagatctac ccagctgaag aagctgatga atgcctactg cgaccgccag tctgtggata 180
tgaaagctat tgcattcctg tttgacggtc gcaggctccg tgccgagcag acccctgatg 240
agcttgagat ggaagatggc gacgagatcg atgcatgct ccaccagacc ggaggccgcc 300
tccctccacg cgctagaag aagccgttga gagtcctgct tgttgctcggc ctacaagact 360
ctgatccatc attagagagc acatgaacga atgaaagtct aaaaagaact tgtgaggctc 420

tggccccaag ccatagctga aggacattan gggaggtttt gtttagtgcc g

471

<210> 4797

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-C9

<400> 4797

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aacaggagcc ctccggcctg gactgatcgt gtttccgagc gtagtcgcgg taggcccttc 120
caagtacaca ggcgaggagg ctgccataag tcgtcccttg aggtcttctt tgcttcttca 180
taatctgagc ttggatcagt ttctggctctt cccgtgcac acgcaacgcc aattgtagtg 240
gggccatatt tgtaatggcc catgaacgac tttaacgcat gggggagtaa ctgccaatc 300
actcttccca ccacgttctt ctcccctacc acgtatgttg catgcattga atggggtaag 360
taaaagaagc gcgtgggtgcc ggagagtgtc aacgcaa 397

<210> 4798

<211> 458

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-D4

<400> 4798

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tgttttcttt cactaacgga gcttataaga tttcatgttg agttttgtgt tgtgaagtcc 120
tcaagttttg agtaaagctt ttatggacta tggaataagg agtggcaaga gcctaaactt 180
ggggatgacc atggcacccc aagatattca agattagcca agatcctaag cttggggatg 240
ccccgggaag gcatcccttg tttcgtcttc gttcattggt aactttactt ggagctatat 300
ttttattcgc cacatgatat gtattttgct tggagcgggt tgtattatat tagtctttgc 360
tttttagttt accacaatca tccttgctgt acacaccttt tgggagaagc ctatttgatt 420
agaatttatt tgttttttct ccagtgcctc acttatat 458

<210> 4799
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-D6

<400> 4799

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 aggacaagat cagcggcgac ggccacggcg acggcaagaa ggacggcgag cacaaggaga 120
 agaaggacaa gaagaagaag aaggacaaga agcacggcga gggccacaag gacgacgacc 180
 caccacaaca ccatcatcgc atcccattag catcgccagt ttccttggag agaagtagct 240
 agaaacagca gcgcatggc cggcatcatg cacaagatcg aggagaagct ccacatgggc 300
 ggcggcagcg acgagcaca gaaggacgag gagcacaaga agaatgacgg ggagcacaag 360
 aatgacggcg agcacaagaa ggacggggag cacaaggagg gca 403

<210> 4800
 <211> 459
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-D9

<400> 4800

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 acacagcggg agacatagtc aggccaatgt cgattagaac cagacacacc tacgaatcca 180
 tatatggccc atccacaaca caaaacaac ttcgcaatcc ccacatggac caaacatcca 240
 accaacagac caccggcacc ctctccctgc acaaagtcca accccccttc ccccaaaaaa 300
 tcacatccac cgcccccca agcacacaat attattacag aaataatgga ataataca 360
 tagaaaggaa ctaaaagagg aagagaagaa attgctacct tcccgcagca gatccacaac 420
 accaaaacag cctcgcaatg cccacatggg aaaaacact 459

<210> 4801
 <211> 442
 <212> DNA

<213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-E1
 <400> 4801

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 tgtgtcttag tattccacaa tcatccttgc tgtacacacc ttttgagaga gccatacatg 120
 aattaaaatt tgatagaata ctctatgtgc ttcacttaca tcttttgagc taagtagttt 180
 tgctctatgt gcttcactta tatcttttga gctagataat tttgctccat gtgcttcaact 240
 tatactcttt gagcagtata attttgctct atgttcttca cttagatctt ttagagcacg 300
 gtggtggatt tgttttaaag aaactattga tctctcatgc ttcacttaa ttactttgag 360
 agtctcttaa tagcatggga atttgcttaa taagaatatg cttgggattc aagatttgtg 420
 aaacgttcgt ttgagtgtgt tg 442

<210> 4802
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-F1
 <400> 4802

attcccagat cgacgggtac aactatattc aaattacttg gaattattaa tatccggaat 60
 acctcattgt gaaattacaa atgtgatttc aacaccatt gcaacgcacg aggccttttg 120
 ctaataataa taaatatgat aataataata atataatact cttccattc ctaaataata 180
 gtcttttttag agatttcaac acagaatata tacgaagcaa aatgagtga tctacacact 240
 aaaatatgtc catatacatc cgttatgtga ctataaatta agaaatatct aaaaagactt 300
 atatttagaa acatagggag tataaagcaa aagcttgctg attgttatgt tcatataggt 360
 tggctagtat tactacaaat tcttcacgca actgcctcct ccccaaaagt ccagggtttc 420
 tttgtg 426

<210> 4803
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-F2

<400> 4803

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ataaatagtt gcactctcat gcttcactta tatctttttg agagttgata atagtaatga 120
caattagtgt gggttataaa tttggtccta atgtgatagg tattcaagtg ggatataata 180
caaactttca tgtagatcac tgaaaatgat aagtttgatt ccttgcaata gtttgcgata 240
taaagtgtgt aatatgcggg ttgtgctagt gagtaattgt ggttttagtaa gaatattggt 300
gttaacgttc gtgattcccc gaacatgcac gtatgggtctc tcgttatgct atgaagtttc 360
atcatgattt aata 374

<210> 4804

<211> 433

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-F3

<400> 4804

attcncaggt cgacgggggc tcaacaatac tatggaactt cccgacaagg tgaagccagt 60
gcaggaaatc agggaatgca atcacctac agatccagtt cgtttcctgc acctcagtat 120
gcactgcaga gagagaatgt ttttctgag agacctgac aaccggaatg catatactac 180
ataaagactg gagattgtaa atttggtgca gtttgcaaat tccatcatcc ccgtgtgcgt 240
tcacagcctc cccagactg tatcttgagc ccaatgggtc ttccattacg cccaggggaa 300
gagctctgca agttctattc tcgctatggc atctgcaagt tcggcgtaaa ctgcaagttc 360
gaccacccga tggcggtcc gatgggggtc tacgcgtacg gctactccgc ctggtcgctg 420
cccaacgcgc cca 433

<210> 4805

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-F4

ggtccagaat tcccgggtcg acgggactg agagagcttc cgaagaaggc tggccaacag 60
 ttagtaatat tatctcaggt cctaattgat gatattaatg ttggttatga aaggctggct 120
 gaactccagg taaagaaggt gaatggtgtt gaggttgaga atttgaagca tttgtgcagt 180
 atcgtggaga actgcactga agaaaacttg agaattgatt tggacgatga gcgggagatc 240
 gtcctgaaat ttcagaacgc gaggcttgcc acgtctcgga tcctcaagcg gcacaggatt 300
 ccatcagcca tgtcgagtga ccttgtcgat gaacaagcga gcaaagggtga gactgacgcg 360
 tcatgcacaa actgacacat tttcgta 387

<210> 4808
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-G3

<400> 4808

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 agatcggcgc ttcagcatta agctcgagga gaccttcgat gttcatcagg tacgcaaccg 120
 acgataatag tttttttcgt aattactcat gacttcaact attttaatca tgacaatatt 180
 tttcatcttt tccaattcga ctagcttata ccatgctttg caagacgcta tgtcttggag 240
 aggatggggt ttgaagacca tgaaagtttc gaaaccaaag aaattatcct aagtacccat 300
 catggtgtgg attttcaa ataaagtgtac aatgctcaga gtgtaacca ttttggttgc 360
 aaaaattggg aagcactttg caagatgtat gggtttgatg aggggtatgct tgttaccatg 420
 gatcttgggtg atcctacaat cgagcaagag agaccta 457

<210> 4809
 <211> 319
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-G4

<400> 4809

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 tttgagccaa aaaaattcac cgtttgtcaa aaaaaatatc tttcttgcgg aaaaagggga 120

tgcacccaaa tcaaaacaca tggatgggct cctagcctag tggcaagagc gcggtgatgt 180
ctctcggccg actcggggtt gaactgccta ggcaagcact tggtaaagtt acgttacctg 240
atctctgagt gtgggcactc catgatggac aacatattgt gcgtccacga tgccaaattg 300
ctcttcaggg tcttgccag 319

<210> 4810
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E1-G5
<400> 4810

ggccagaat tcccgggtcg acgggctatt tgaaactgct cgacgggagc ttaatcttcc 60
ttctgcta atgaattgatta gttctcagtc aaacaatgag gcaaatggaa atctggaaag 120
cacacaggaa gtgcagggtga acccaacgag cttatctcaa tacagggaca tccagagaaa 180
gattgttgag tttatcagaa agagatacca tattctggaa aaatgcttgg acattgaata 240
tgccgtgata aaaacaaata ctctgttcc tgatgatctt actgaacaaa atgttcttat 300
gggacatagc ccagctgttc cagatatcag tgaagtgttg agagaacttc cccctcttgt 360
accaatttct gccaaagaag tggcttctga tggctcaact gaccaggcac acctttccca 420
tctttacaac aagatgtgcg gtgtgcttga ggaca 455

<210> 4811
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E1-G7
<400> 4811

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tagaaagcca agaagaaatt tgtattttgg gttttagatt tgcaaattgt ggtatagcta 120
tcgctaccta gaatcgatag aagctctgtt tttttcaata aagcccagaa agccatactt 180
aactcattc tccagcaa atactccactg gtaagctatt ccttcgctag actcctttga 240
agcatcggaa gtaaacacaa gcaacctgtg gttctttgca accagatctg tgacggtggg 300

ccactcctgc ccactcgttg gcatttctga gatagggtag caatacttca tcaagtcagc 360
 agcagtaaac aatttgctca atctcatcgg ggcattgtacg taatcctoga tgaatattgt 420
 aacaatctcc gt 432

<210> 4812
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-G8
 <400> 4812

ggtccaggac tcccggtcg acggagagca caagaaggac ggcgagcaca agaaggacgg 60
 ggagcacaag gaaggcatga tggagaagat caaggacaag attagcggcg acggccacgg 120
 ctacggcaag aaggacggcg accacaagga gaagaaagac aagaagaaga agaaggacaa 180
 gaagcacggc gatggccaca aagacgacga ctggcaccgc agcagcagca acgacagcga 240
 cagcgactga gccaaactccc gccgcgctcc ggcaacagcg ttcactgtat gcgagatcta 300
 tgaacgcttg tgaaaaatgt ggcatacata tatgtttcac agtttttagc gtctgggtacc 360
 atatgtatgt tatgcgtgac atgtctc 387

<210> 4813
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-H1
 <400> 4813

acgcctgctt gtaccggccc taaattcncg agtcgacggg tacggattat cgggaattgt 60
 tgtttgttct tccggtctca tttaaacttg cctagttagg tagtttcatt atgcttcacc 120
 ccttgccatg tttaacaaca tttaatatgt atcagtagca ataccgagag agaactaact 180
 aattgttgtg gtgtttcgtc aatatgcaac ttgttacata ttgagctcca cttaacttta 240
 gcgttgcttg tgcactttgc catgccatgc ctcatcacac tggacatgca tcatacttga 300
 ttgtgcatca tgacatgatt atgcctgtgt gtttaccatg ttgtttgctt cattccgggt 360

tgcttctctc gttagcttcg gtttcattcc gga

393

<210> 4814

<211> 226

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H2

<400> 4814

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aaataattta tctagcctct gttttggttg tgttttttgt gtttaattag tgtttgtgcc 120

aagtagaacc gttggaaga cttggggaaa gtctttttga tcttgctgta aaaaacagaa 180

actttagcgc tcacgagaat ctatgccatt tttatttgga aggtga 226

<210> 4815

<211> 359

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-H4

<400> 4815

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aatcgcaaca ttaccggaac taagaagcaa caccggaaag aaacaaacaa tatggtaaata 120

gcacaagcat aaacatggca tgatgcacaa acaagtatga tgcattgtccg gtttaattgag 180

gcatggcatg gcaaagtga acaacaaca ctacaaatta agtggagctc aatatgcaac 240

gagttgcata ttgacaaaac ttcacaacat ttatttagtt tgctctcttt taagtacgca 300

ataatattaa atgttggtta acatgggaag acgggaagca agagagaact acctatcta 359

<210> 4816

<211> 267

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H9

<400> 4816

taccggtcct atattcccgg gtccacggga agcgaccaag gacgatagac aggggtgctgt 60

actctcctcg ctaaactcca ctgaagcttg ctgatctcca caaccttaca cgggtctaca 120
 aaacagacct tcccacagtg ccaagcaatg caccaccaat gatggcttca tctgttacgg 180
 aagcgtccta caagggcctc ctccacaatg gcttccagaa caattaaacc gttgttcaca 240
 ccttccaatc ggatgggtaa tcaatcc 267

<210> 4817
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-A9
 <400> 4817

ccccgggtcga cgggttgat acatttgttt tgcttacaaa tgaagggcct agcttggaga 60
 aagatgaaca ttggagcaag aacaagcatg gagatgatgg catgcgcaag gggaacaaga 120
 acggagttac aagtgatgat ttcaggactt tgaagccacc ataatgggtg catgaagcct 180
 tggacgaaat atacaagatg ccacttcata aatttcgtcc cgaggctatt ttaggtgttg 240
 cgtcacctta ttattgggcc aggcccatgt aatttcgaaa tacataatta gaggctat 300
 ttacagtccg tatgtgtggg gaaacaaaag atatggttga tttcggaccc ctccacgagg 360
 ggccactaaa ttccccctc ttctcc 387

<210> 4818
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B2
 <400> 4818

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 tctcaagaag atctactcgg tctaagcttc tttttcggt gtgtgtgtct gacacagctg 120
 aattttgggt taacgatcaa gtctaacgat gaccaatagt taaagtcact ctgaagtcata 180
 taaagctatg agcaggctag gtttgcaggc ctctgcgaag tactaattag gtttgggata 240
 agctagtgat tgatcatggc aaagagatcg atgctagcct taggtataat catgccgtgt 300
 cctttcacac tgatagaagg ggcagtagag aatatagcgt attgttggtg tccaggactc 360

tgatataggg ttattaacca aatgcatgaa tgtaactctg tac

403

<210> 4819

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B5

<400> 4819

attccccgggt cgacgggggtc tcaactgggtcc atatctcttt ctttagcaac attgaaatcc 60

tcttgaacct ttagggaatg ccgctgcagt ctactaaaga aatcaaacag acccaactgc 120

tcaactacaa atttcttagg attaactctgt cgacacatg cacctcatac cgagggttaa 180

taattcaaaa tgattgacga agctaaaatc taaagacaac ttaagattac tgaaaactgc 240

ccaaaacaat aatatgactg aattgttaga tggaacccaaa aaggaaattg tatttatcaa 300

gtttattaat ctgcatgaac taagacagtc tccgatattc aagaatgtag tggctcttga 360

tttttaatca gagatacaa atgaccagat gcgtacaata gagggaagga gaagatact 419

<210> 4820

<211> 451

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-B6

<400> 4820

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acttttctcaa aataatcata acatgatatt acaaaatggg atctcgctag ccctttctaa 120

gaccgcaaaa cataaatgca gagcaccttt aaagatcaag gactgactaa acattgtgat 180

tcatggtaaa agagatccag tcaagtcata ccaaatan acaaaagtaa tgaatcaaaa 240

taacagtgtt ctctcaagcg ggtgctttta ataagaaggg tgatgactca acatagaagt 300

aaatagatac gcccttttga gagggaagca gggatttga gaggtgccag agctcgattt 360

tgaaatacag atagaataac attttgagcg gcatactttc gctgtcaatg caacaactat 420

gagatggctg tatcttccat actacatgca t 451

<210> 4821
 <211> 152
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-C10
 <400> 4821

ctatagtgag tcgtattagt cgcagcagca tgagccctcg ggcttgggaat gatccagttt 60
 ccgagcgtac tcgcggtagg ctcttccaag tacagacgcc aggaggctgc gataggctcg 120
 cgcttgagggt catcgttgcg tcgtcataat ct 152

<210> 4822
 <211> 70
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-C6
 <400> 4822

ggggcaccct atagtgagtc gtattacgtt ctgctgcttg caggcttcgt agaagactcc 60
 gcttgggtgc 70

<210> 4823
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-C8
 <400> 4823

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 caacaggagc cctcgggcct ggactgatcg tgtttccgag cgtagtcgcy gtaggcctt 120
 ccaagtacac aggcgaggag gctgccataa gtcgtccctt gaggtcttct ttgcttcttc 180
 ataatctgag cttggatcag tttctggtct tcccgatcat caccgaacgc caattgtagt 240
 ggggccatat ttgtaatggc ccatgaacga ctttaacgca tgggggagta actgccaaatt 300
 cactcttccc accacgttct tctcccctac cacgtatggt gcatgcattg agtggggtaa 360
 gtaaaggaag cgcgtggtgc gggagagtgt caacgcaagg gcctggcctt ctgcgattgg 420

ttgagaagga cgccggtcac ccatcg

446

<210> 4824

<211> 452

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-C9

<400> 4824

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aacaggagcc ctccggcctg gactgatcgt gtttccgagc gtagtcgcgg taggcccttc 120

caagtacaca ggcgaggagg ctgccataag tcgtcccttg aggtcttctt tgcttcttca 180

taatctgagc ttggatcagt ttctggctct cccgtgcatc acgcaacgcc aattgtagtg 240

gggccatatt tgtaatggcc catgaacgac tttaacgcat gggggagtaa ctgccaattc 300

actcttccca ccacgttctt ctcccctacc acgtatgttg catgcattga gtggggtaag 360

taaaggaggc gcgtggtgcg ggagagtgtc aacgcaaggg cctggccttc tcgcattggt 420

tgagaaggac ngccgtcacc catcgacgga tt 452

<210> 4825

<211> 445

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-D10

<400> 4825

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tctatggcta cagaggaaag agcattaagt ctgccctcat cggtggttct agcctgacat 120

tcacatctgc cattcaggac gttggcggta aactaccac agtggacat ggcaaagcct 180

accatgcata cacaacggaa aagaagcccg agcctgcgca ttgatcaagg ttgtctactt 240

gtagcacaaa tcatgcaaac cagctcgggt aatttttgag ctgatgtgtg ctgttatgtc 300

tgttttgcg aagcacctag ttcatcttgc aaactgtaat aacttgtttt gtcgacggc 360

aatacaacat acctggaata aatatcttgc ttactttgc ttcatcaatt ggtacgatca 420

taatcacatg tgacacaata ttggt

445

<210> 4826

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D4

<400> 4826

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acggagctta taagatttca tgttgagttt tgtgtgtgga agttctcaag ttttgagtaa 120

agcttttatg gactatggaa taaggagtgg caagagccta aacttgggga tgaccatggc 180

acccaagat attcaagatt agccaagatc ctaagcttgg ggatgccccg ggaaggcatc 240

ccctgtttcg tcttcgttca ttggttaactt tacttggagc tatattttta ttcgccacat 300

gatatgtatt ttgcttggag cgggtgtgat tatattaatc tttgcttttt agtttaccac 360

agtcacccctt gctgtacaca ccttttgga gaagcctatt tgattagaat ttaattgttt 420

ttt 423

<210> 4827

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D5

<400> 4827

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ccggacgcca tcatgatcct gacgggtgaag cgcgacaaca tctgcagctt catctcggag 120

accaaccccc ggcacgtgag gtcgtgggag accaaggaca gccagctgac gatggtggcg 180

gacgacctga agccgcgggc ggtgctgacg tgcccggaga agaagatgat ccagcagggtg 240

gtgttcgcca gctacgggaa cccgctgggg atctgcggca actacacgtt tggcaactgc 300

cacacgcca aggccaagga gattgtggag aaggcgtgag tggggaagag gagctgcgtg 360

ctggccgtgt cgcacgaggt gtacggcggg gacctcaact gcccggggca c 411

<210> 4828

<211> 428
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-D6
 <400> 4828

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 aagaaggaca agaagaagaa gaaggacaag aagcacggcg agggccacaa ggacgacgac 180
 ccaccacaac accatcatcg catcccatta gcatcgccag tttccttgga gagaagtagc 240
 tagaaacagc agcgccatgg ccggcatcat gcacaagatc gaggagaagc tccacatggg 300
 cggcggcagc gacgagcaca agaaggacga ggagcacaag aagaaggacg gggagcacia 360
 gaaggacggc gagcacaaga aggacgggga gcacaaggag ggcattgatgg agaagatcaa 420
 ggacaaga 428

<210> 4829
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-D7
 <400> 4829

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 ggtgtatcca aaccccgatga tatgatacgc tctatcacac ataagcctct ttatatcttc 120
 ctcaaaacag gcaccatacc tacctattat ggcatttcca tagccattcc gagatatatt 180
 gccatgcaac tttccaccgt tccgtttatt atgacacgct ccatcattgt catattgctt 240
 tacatgatca tgtagttgac atcgatatttg tggcaaagcc accttcataa ttctttcata 300
 catgtcactc ttgattcatt gcacatcccg gtacaccgcc ggaggcattc acatagattc 360
 atattttgtt ctaagtatcg agttgtaatt cgtgagttgt aagtacataa tagtgtgatg 420
 attttcatta ttaga 435

<210> 4830
 <211> 441
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E1

<400> 4830

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acaatcatcc ttgctgtaca caccttttga gagagccata catgaattaa aatttgatag 120
aatactctat gtgcttcact tacatctttt gagctaagta gttttgctct atgtgcttca 180
cttatatctt ttgagctaga taattttgct ccatgtgctt cacttatatc ttttgagcat 240
tataattttg ctctatgttc ttcacttaga tcttttagag cacgggtggg gatttgtttt 300
aaagaaacta ttgatctctc atgcttcact taaattatct tgagagtctc ttaatagcat 360
ggtaatttgc ttaataataa tatgcttggg attcaagatt tgtgaaactt tcttttgagt 420
gtgttgaata ctaaggaaag a 441

<210> 4831

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E10

<400> 4831

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gggtgtgtgc atgttggggg gcaaagaagc acaagcgaga gtggtcgccg tataaccttg 120
gatggggatg aattgtgtgc tcggggagtg tgtgtgtgtg tgttgtgtc cgtgtgtctc 180
tgtgtgtgtg tgtcagatat tgagagatca caaacctaag gagagaaatg ggtattcacg 240
aagagattgt gcgggccttg aggtgggcat gggccgggta aggggtgtcaa aatgtgcccc 300
ttgatgcatg tggtgcatgc aaccgtgcaa gggatggacg aatcgagaga tatggttgtt 360
gtgttacgga tgctcctctc tctctctctc tctctctatc tctctctctc tctctctcgc 420
tctctcacac acacacacac atgtac 446

<210> 4832

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E5

<400> 4832

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tactccagca tgggtggtggt gcacgagcgc ttcgtggtcc ggttcccga cgccatgccg 120
ctggacaagg gcgcgccct gctgtgcgcc ggcatcaccg tgtacagccc catgaagtac 180
cacgggctga acgctcccgg gatgcacctc ggcgtgctgg gactgggcgg gctgggccac 240
gtcgccgtca agttcggcaa ggccttcggg atgaaggatga cagcgatcag ctcgtcgcca 300
gggaagaagc aagaggccct cgaaaggctt ggcgcgcgacg ccttcgttgt caacaagaac 360
gccgacgaga tgaaggctgc gattagcacc atggatggca tcataaacac cgtgtctgca 420
aacatcccca tgggccctct cttccggctg ctc 453

<210> 4833

<211> 418

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-F1

<400> 4833

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gtgaaattac aaatgtgatt tcaacaccca ttgcaacgca cgaggccttt tgctaataat 120
aataaatatg ataataataa taatataata ctcttcccat tcctaaatat aagtcttttt 180
agagatttca acacagaata catacgaagc aaaatgagtg aatctacaca ctaaaatatg 240
tccatataca tccgttatgt gactataaat taagaaatat ctaaaaagac ttatatttag 300
aaacataggg agtataaagc aaaagcttgc tgattgttag gttcatatan gttggctagt 360
attactacaa atgcctcacg caactgcctc ctccccaaa agtccaaagt ttctttgt 418

<210> 4834

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F10

<400> 4834

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 taaattactg cgttggtgct gaggtcacca ctatgtatca cttggatcgc cctatgtact 120
 tgatgggata gcgtgcgatt caaactcgat tttatcctac tgacatcgag ttcaatgtca 180
 gtgggtatag aatacgtcgc agtttgatcg actaccatac gcgtgtgatg cgcagggatt 240
 tggaaagtgc aactgagatg tgaccgtcca taccatagac acaatatcgt agtggctctc 300
 atttcgtgga atcgagagga atgttgacg aggctcgta aatagccact gatgctgaag 360
 atcactttga attcgtgtg cagcgtggac aactacaaat cgcaaacgc 409

<210> 4835
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F5
 <400> 4835

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 gtgtgtcccc cggcgtgagc ccgtggttgc gttcgtggag tgaaggagct gcatgcgcag 120
 agccgttgcg atctgttga gtcaggtgcg atgtgcgcgc ggctggaggg agttagttgc 180
 aagctagcta gatggttggc cgggtcatgc tagtgcatgc atgggctagc ccggcgggtc 240
 atgtggtcat gcatggatat ggatcgtgca tgtagtggtt agcttagtgc gtgagttagt 300
 tgccgggtgt gcaggccgtg tgggtgtgtg gcacgggtat aaaaaccct cctccatgta 360
 ctgatcgagt tgagccgtg tgtagccatg tagccactgt aaggaagaaa aggattgggg 420
 c 421

<210> 4836
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F6
 <400> 4836

attcccgggt cgacggggca gtcgctgcca ggatgctgat tgtgatgagc attaagctga 60
 agctcgctct tctcggcggt cgcaagagac ggcgtgacct gtgaatacat cgagtgcggc 120

atgtaacata ggcaaatagc ctgcctgaag agtgagggag agaaaacctg catagatttt 180
gttctggcgt ttttgtgtgt gtttctagtgt attgtttggg tttattttcc gcgcttatgg 240
atgtacatta caggtatata agacagcata gtgatgatgt cttcttcatg gttatggaag 300
tgaaagtaat gttatggaag tgaaagtaat ggtatgaatg ctgtcttcat ggttataaga 360
cagcatagtgt aaaaataaaa gggaaaggga aagaaaaaaa aaaaagcgg ccgctct 417

<210> 4837
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F7

<400> 4837

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gctcgtcttt ctccggcgttc gcaagagacg gcgtgacctg tgaatacatc gagtgcggca 120
tgtaacatag gcaaatagcc tgcctgaaga gtgagggaaa gaaaacctgc atagattttg 180
ttctggcgtt tttgtgtgtg tttctagtga ttgtttgggt taattttccg cccttatgga 240
tgtacattac aggtatataa gacaccatat tgataatttc tccttcaggg taatgaaatt 300
aaaattaagt taatgaaatt gaaattaatg g 331

<210> 4838
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F8

<400> 4838

aattcccggg tgcaggggca ctgagagagc ttccgaagaa ggctggccaa cagttagtaa 60
tattatctca ggtcctaatt gatgatatta atgttgggtt tgaaaggctg gctgaactcc 120
aggtaaagaa ggtgaatggt gttgaggttg agaatttgaa gcattttgtc agtatcgtgg 180
agaactgcac tgaagaaaac ttgagaattg atttggacga tgagcgggag atcgtcctga 240
aatttcagaa cgcgaggctt gccacgtctc ggatcctcaa gcggcacagg attccatcag 300
ccatgtcgag tgaccttgtc gatgaacaag cgagcaaagg tgagactgag gcgtcatgca 360

caaactgaca cattttcgta ggcgtagcta cacagtttct gtggaagcac cgatgttaac 420
tcggt 425

<210> 4839
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-G1

<400> 4839

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ggccctcaag ctaaggaaca ccgacactgg cgagctcatc atgcacctgg agtgggttaa 120
cctcccccca ggcatgtcgc ggtgatttga tttgatttgc agaggaggc cagctattgt 180
ctgccttttg tgatcgtaat gttgcttctt ctatatatga gctatgaaaa taattaagcg 240
atgcctatct cattctttac ataacacca ccgtaatgat ttgtggatct caccaggatg 300
gtgcgtatat aatatgagca acgtcgtggg gagatccgca gatcatcaca gtgggtgcta 360
cgtaaggcat gtgatagact tatgctgctg ggggtaatgc ttgctttcag ttttggttct 420
gcatatgttg tatggctatt ttaatacaaa a 451

<210> 4840
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-G10

<400> 4840

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actcagcctt cattccagggt gaggataagg agtgtcttgt cccatctaata cagagtctcc 120
tgccacacct caaccttaag aagaaccgtt catatagcat ctgtggcaac gtcgaattgc 180
tggccttcac gaatcaatgg tcgatttata gtttgctgcc actgtagatc tacgtcatat 240
acgtacctta cctcattaat gtgagtgtca cgttctgata cgtgtccccg tttgtgcttc 300
cagatcctgt tatggttcgc attgccact gaggtcgggt aag 343

<210> 4841
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E2-G3

<400> 4841

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 agatcggcgc ttcagcatta agctcgagga gaccttcgat gttcatacgg tacgcaaccg 120
 acgataatag tttttttcgt aattactcat gacttcaact attttaatca tgacaatatt 180
 tttcatcttt tccaattcga ctagcttatc ccatgctttg caagacgcta tgtcttggag 240
 aggatggggtt ttgaagacca tgaaagtttc gaaacaaaa aaattatcct aagtacccat 300
 catggtgtgg attttcaa ataaagttgtac aatgctcaga gtgtaaccca ttttggttgc 360
 aaaaattggg aagcactttg caagatgtat gggtttgatg agggatatgct tgttaccatg 420
 gatcttgggtg atcctacaat cgagcaagag agacctac 458

<210> 4842
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-G5

<400> 4842

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 cttccttctg ctaatgaatt gattagttct cagtcaaaca atgaggcaaa tggaaatctg 120
 gaaagcacac aggaagtgcg ggtgaaccca acgagcttat ctcaatacag ggacatccag 180
 agaaagattg ttgagtttat cagaaagaga taccatattc tggaaaaatg cttggacatt 240
 gaatatgccg tgataaaaac aaatactcct gttcctgatg atcttactga acaaaatggt 300
 cctatgggac atagcccagc tgttcagat atcagtgaag tgttgagaga acttccccct 360
 cttgtaccaa tttctgcaa agaagtggct tctgatggct caactgacca ggacacacct 420
 tcccatcttt acaacaagat gtgcggtg 448

<210> 4843

<211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-G6
 <400> 4843

attcccgggt cgacggtggt gtgataccat cgtcgtcatt aagttatcct cgggtggtgtg 60
 atgccgtccc caagatgagt cgctgtgacg ccggcggcaa gacatacatg accaggtgcg 120
 ttgccggtgc aagtggagat ccatgccgcg gtgacaggcg ctgtgacggc gtcattccaca 180
 gcgagatgcc ctgtgtggtc ttggtgctgc gaaggcaaag ttcatggcaa gaggtctgca 240
 tgtgatctgc atcaagatta gaggagtga catgacaaga ttacggacgt gaatgttacg 300
 attaattctt tctagccgag ctgagagagt cagttagttt gttagctgcg tgagggctcg 360
 gtgcctagag tgattctagg aggaagaagt ggtcaagata agattagatg ggtgcatgta 420
 aagtggcggt agtg 434

<210> 4844
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-G7
 <400> 4844

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 agacatagaa agccaagaag aaatttgtat tttgggtttt agatttgcaa attgtggtat 120
 agctatcgct acctagaatc gatagaacct ctgttttttt caataaagcc cagaaagcca 180
 tacttacact cattctccag caaataactc cactggtaag ctattccttc gctagactcc 240
 tttgaagcat cggaagtaa cacaagcaac ctgtggttct ttgcaaccat atctgtgacg 300
 gtggggcact cctgcccact cgttggcatt tctgagatag ggtaccaata cttcatcaag 360
 tcagcagcag taaacaattt gctcaatctc atcggggcat gtacgtaatc ctgatgaat 420
 attgtaacaa tctccgtggg attctcggt aa 452

<210> 4845
 <211> 387
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-G9

<400> 4845

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cggtgcctga tcagcagctg cacatatagt cagtcgagtc gagtcgaatc gaggcagtat 120

agtttagctg gagcttgaga gggtcagatc atggagctcg tcgggagttg gaggaagggtg 180

atgccttaca tggccatggt ctctctgcag ttcggtctacg ccgggctctt cctcctctcc 240

gtcgcgctgc tgcgccaggg catgagccac tacgtcctcg tcgtctaccg gaacgccatc 300

gcgcgcgctg ccatggctcc ctctcgctca tggtttgaga ggaaaacaag gcgcaaaatg 360

accctctccc tgttctacaa gatcgtt 387

<210> 4846

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-H1

<400> 4846

acgcctgtcg gtaccggtcc gaaattcacg ggtccacggg tagggattta tccggaattg 60

ttgtttgttc ttccggtctc atttaaactt gcctagttag gtagtttcat tatgcttcac 120

cccttgccat gtttaacaac atttaattat gatcagtagc aataccgaga gagaactaac 180

taattgttgt ggtgtttcgt caatatgcaa cttgttacat attgagctcc acttaacttt 240

agtgttggtt gtgcactttg ccatgccatg cctcattaca ctggacatgc atcatacttg 300

attgtgcacg atgacatgat tatgcttggt tgtttaccat gttgtttgct tctttccggt 360

ttgcttctct cgttagcttc ggtttcattc cggatttggt aggattcggt cgactacgtt 420

cgtttgacct cttcagggtac t 441

<210> 4847

<211> 430

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-H11

<400> 4847

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cgacggcgac ggccctcgta acttcgacga gttcgtcagg atgatgatgc tctccgacgc 120
cgaccagcag cagcagcagc agcattgaga gtttggtccga gactaggaaa tatagtccgt 180
ccgtccgtcg tcgatttctt cgggtggacgg acggacacct ctctaattccg cccgggggatt 240
aagttagcta agctagccat gcatgtgtgg atgaatggat cttgaattct tgattgatta 300
gttacaactg ttattggaaa agctagagat tagataacta actagagaaa agaaaaaact 360
aactgaacgt ggtgattctg ttccgtcggc gccagcgggtg catataatta aataattttc 420
accagtgact 430

<210> 4848

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-H3

<400> 4848

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ttgacggtac caccgcggta tctacatggg gctggggcgt ccaaggagtt gcctctccac 120
gttcgcatcg acaagatcac ctctgatct ctccactac tcttaattct ccagtgggca 180
tatgcctaag aagtgatgta ttttggttac ttggttgtag tcccttggtc gcaaaaattct 240
tgtcttaatt tttttaaata aggatgtatt aagtcattatt ttagtattag atacatccta 300
tctagactaa tataagacaa gaattttgag atggagggag tgcgtaatac atgtcttggtg 360
gcagggtattt tggttgtagt actttgagat cagacgaggt acttcgctag ttccgacagt 420
ggaaggggt 428

<210> 4849

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-H5

<400> 4849

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 gtgataattc tgttgtgccc gggcattttg agcttcatat accgtaatgg ggtacggctt 120
 ggaagcatgt gaatgtgtct caccacagca aaccatgata ccctctgttg agtgatgaca 180
 catggaagag aaactcttcg gacctatagt tctccggcgt gctgaatacc acgtcgagtt 240
 tgatttttcc cgagcatctg gcttcccgac tagggataat actgtgaaag gttgtgttac 300
 tttggtcaat gcgactcatg tccatttgca ttctattgag tgtgtcctca tagatgaggt 360
 tcagtccgct atgctaccgc cgtccttgag aacttttagt agccaaaacc cgtctttggg 420
 tttaggac 428

<210> 4850
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-H7
 <400> 4850

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 gtggtggcgc tttcagctg catgctgtgg atcttctacg cgctgggtcaa gaccaactcc 120
 agcccgtgc tcaccatcaa cgccttcggc tgcgtcgteg agggcttcta catcctgctc 180
 tacgtggtgt acgcgccag ggcgcgag caccgcgcc tcgccttctt cctcctctc 240
 gacgtcgccg ctttcgccct cattgtctcc gtcaccgtgc tcctcgtgcc ccagcccagc 300
 cgcgtcaagg tcctcggcag cgtctgcctc gccttctcca tggcgcgtct cgtcgccccg 360
 ctcagcgtca ttttcgtggt gatcaagacc aagagcgccg agtacatgcc cttctcgtc 420
 tccttcttcc tcaccctcag cgcgctcg 448

<210> 4851
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-A10
 <400> 4851

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gcgacgtggg caagatggag cacgggtgcg agcattaccg gcggagatgc aagatcgtag 120
cgccgtgctg caaggagggtg ttcccctgcc gccattgcc caacgacgcc acggccttgg 180
gtgatcggca taatatatgt cgccaggatg ttgaaaaagt agtgtgtgta ctctgtgata 240
ctgaacaacc ggtgtcacia gtgtgtgtaa gatgtggagt caatatggga gaatacttct 300
gtgatgtatg caagttttat gatgatgaca cagagaaagg gcagtaccat tgccatgatt 360
gcggcatatg cagggttggg ggcaaggaaa actacttcca ctgtgcaaag tgtgggtcat 420
gttatgctgt tgcgttgcgt gataac 446

<210> 4852
<211> 423
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-A2
<400> 4852

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tacgactcgc tcaagaactt ccgcgagatc tccccgcgcg cgcagtcca cctcaagctc 120
gtttacctga ccctatgctt tgccctggcc tcatctgcgc tgggtgctta cctgcacatt 180
gccctgaaca tcggtgggat gctgacaatg cttgcgtgta tcggaaccat tgccctggatg 240
ttctctgtgc cagtctatga ggagaggaag aggtttgggc tgctgatggg tgcagccctc 300
ctggaagggg cttcggttgg acctctgatt gagcttgcca tagactttga cccaagcatc 360
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tcg 423

<210> 4853
<211> 348
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-A6
<400> 4853

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tggatgctgt ataaaccatg agttggagaa aaaaaatgat ttttcagttt gagaaccggc 120
gccgagagag agagggagag ccgagaagag gaaggccggg atatttatta tattaattaa 180
agaaaaaaag ggcaagttag ttagttggtg ccacagaatg caatgcatgc tcccttcac 240
atcatcatca tcatcatcat aatgtgatca gagctgagac ctgatcgatg gcaaataa 300
gtacttagat cagtactcct gcttaaaaaa taaaaagtgc aatataaa 348

<210> 4854
<211> 395
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-A8
<400> 4854

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ttttgtaatg ggtagtagg ggggaggaga catggataat tggtagctcta cttactttgt 120
gttggtggtcg ggggtggtcg ggtttgttcg cggagactgc tgttattagt ctggtggccg 180
agttgtagag aactctcttt gctgctgctg ctgttacttc cttctgatgt ttttctgttt 240
tgttattata tagccggatg aagaaaagat gatgcagttt tatctaaaaa aaaaaatcaa 300
aaaaaaaaaa aaacaaaaaa aaacaaaaaa aaaaaaaaaa ataaaaaaaaa aaaagcggcc 360
gctctaaagg atccaagctt acttacgcgt gcatg 395

<210> 4855
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-B10
<400> 4855

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ctctgcaacc ccataatcgc caagatgtac cagggtgccg gagctaacat ggcggtggc 180
atggacgagg acgatgcacc tccggctgct ggcggcgctg gcccgaagat cgaggaggtc 240
gactaagcga gcacttgtag cagtcttacc ctaaagttat tccgttcgtt atgttggatg 300

ctactgcagt acgtggtggt ggatgtgatg tgtgtgaact gcgtttgctg ctgcttttct 360
 gttaatgtta gttgcatctg gtgatatgct gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
 aagcgccgc tctagaggat ccaagc 446

<210> 4856
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-B12
 <400> 4856

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 ggatcatggc cactgagttt aggaacaaca atagatgtta gattggtgtt accgtcgaaa 180
 gacagaagag tcagtgcacat aagcagtaca gtttggtgtc gttcttatat cttgctgctg 240
 aatatcacta ctagtacttg tcattagtgc gatgctgctg actttaaaatt tcttgatatcc 300
 tggaaattct ttctaagtac atatcaatat caatattcaa accttaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcgccgc tctacaggat 420
 ccaagctta 429

<210> 4857
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-B6
 <400> 4857

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 gtggctttgt ccctgctcgg tcgccgcatt tgacgtgcag tacatcatcg acgagtgatg 120
 tcaccgttga tctgtatgaa taatttgtgt caaataaaag gggggaagtg actagtgaag 180
 taaaacgacc tgtaacttgt taccctattc ttttgcaaat gttcatgcta atcatgccat 240
 aaacacgaac tgttcgcttc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ccaaatcaaa 360

caaatacaaaa ctaaaaaat

378

<210> 4858
<211> 309
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-B7

<400> 4858

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ctataggaca tttcatatgg cactggggcc atatgagcat agggattata taggaaatat 180
aataaagtca ttgtatcaac tgttgacgct agctgggtgc gtgcgcgtca gccgtgaaga 240
atgtgccgcg gtctctgtgaa cgaataattt gtgatgcatt cgttatgaaa aactgtcaca 300
tgtttctac 309

<210> 4859
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-B8

<400> 4859

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cttctttctt tttctgttct ttttatttat atttttcgtt ttttatTTTT tgttaaattc 120
atggacatct tagtagggaa taccaaagga aaaaaaaac tccgtgaaca atttttccaa 180
aaggaaaaaa aggcccaatt ttttaaaaaa aattttaacg gtttaagaat taatttcaat 240
ggtttttaaaa ggaatttaaa aattttccaa aggaaaagtt cccggaattt tgaaaaaatt 300
tgtaaaattg aaaaaatttc ttggatttga aaaaattcaa cggtttcaaa aaaattcaac 360
aatttcggta aaaattttca cgcattagtt aaa 393

<210> 4860
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-C10

<400> 4860

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gcacggggta aagctcatcc gagctgtcac atcgggtggag taccatccgt gtacgggtgt 120
gccaaagatc gacactagcg gcgaaggcgg cgggacgacg ggtggtggtg gcgccagagg 180
gatgcacggg gtaaagctca tccgagctgt cacatcggtg gagtaccatc cgtgtacggg 240
cgtccttcac agaaaagccg atatcgtcaa attcaacagt gataggattc tcacgagcaa 300
ggcggcgaac agaaactaga ttagtgacta agtcaggaga cacaagaaca ttagatatgt 360
taacgggagt agaagtagaa gggaatgacg tttgaccgac atgtgtaatg ggtangaagg 420
aaccgttacc aacggtgatg cgagt 445

<210> 4861
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-C11

<400> 4861

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ctaattctcag tattaattat tactgagtag tatcatcgta ctgcagggtg cgcgcgcgtg 120
tggattactt actttagtta atttattatt actggattgt actgctggc gttagttaaa 180
ttattacctt cagggtgtgtg cctcgatctc tcttaatcag tagtagtccg cgttggtgcg 240
gtgacaataa taaaacacga cctactactt gtgcatgttg tgatgcatgc atgtgtactg 300
gtcattcatg ctgtaaaaaa aaaaaaaaaa aaaaaaaaaa ataacaaaaa aaaaaattaa 360
aaaaaaaaa aaaaaaaaaa aaaaaagcgg ccgctctaaa ggatccaagc ttactta 417

<210> 4862
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-C2

<400> 4862

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ccagatgacg cccttccttc atccgagccg gatccagatg atgcgggtgcg tgcgtcgtca 180
gaggcgcccc aacatgaggg gatggggcca cgtccaccgt ttcgggagat ccacgctgct 240
cctccggcgt ccgctgaca agaatacctc ggcgtacggc cgtgacagtt agcattggcc 300
gaccaatcga tatgtaagcg cgattcaca gtgcggaagg attagcgcat cgacaaaaa 360
gccgctgct aatgggtgta cacg 384

<210> 4863
<211> 380
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-C4
<400> 4863

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gagggtgaat aactatgctc ggatcgttgg ccgcatctgg gcgcagatcc cattcatgtg 120
cggaagcagc atgcacatca acaatcgact actcactggg caccatccat acgacggcag 180
tggggctcag catgttcgcy tcggggacgt gcataacgcy gaagtcgctg ttcgtcgcgt 240
gcggctacac gatcgcgtct gtgtctatgg tgctcacggt cctgataggc ctggtggtga 300
tgctgctcgc gtcgctcgcc atctgcatgc acgggtaccct gctgcacatt gctgttgtag 360
atgccgtact agccctatct 380

<210> 4864
<211> 460
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-C6
<400> 4864

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agggagaag gttctcaaga ttccgaatac ctatgccagc ttccttggcc tcatctgggc 120
cctgatcgca ttcaagtgcg gaatcaagat gccaaaaata atcgacgact cactgttcac 180

catccagacg acggcggttg ggctcagcat gttcgcgtcg gggacgttca tagcgcgga 240
gtcgcggttc gtcccggtcg gctacgcgat cgcgtcggtg tcgatgggtc tcaagttcct 300
ggtaggcccg gtggtgatgc tgctcgcgtc gctcgccatc ggcattgcacg gcaccctgct 360
gcacattgct gttgtacagg cggcactacc cctagctgtg acttcatttg tgtacgctga 420
agaatacaag gtcattgcaga catcatgagc acaggggtaa 460

<210> 4865
<211> 437
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-C7

<400> 4865
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atcatgggta tacctcgaag agtccagcaa ttgtcaatct acttgagatc atgacggaat 120
ttactccgga gcaacaacat gcattctgcc agtttgtgac tgggtgctct cggcttccac 180
ctggtggctt agcctcccta atcctaagct gactatagtt aggaagcact cttcgactgc 240
ggcgaatact tcaaatgcag ctggagcagc agagtctgca gatgatgatc tgcctagtgt 300
catgacttgt gccaaactatc ttaaacttcc gccatactcg acaaaggagg ttatgcacaa 360
gaagctgctt tatgctatca acgaaggcca agggctggtt gatcnttcat agtgggttca 420
aaactaacat acatgca 437

<210> 4866
<211> 444
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-D1

<400> 4866
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agacaaaggt tgttgccagg agggaattat gctgctgctg ctgctgctgc tgctgggaga 120
tgctgccagt ggctttgttg gcgtctagaa gcttctaggt gaggcggcac cgccttctag 180

ggtcattggct gcctgcccgc gctgcgccgc ccgtcgggaat tcatttcagt cgctccatca 240
aatccgttcc gttcctatgg gtgacatttt ctattttctg cgttcgtttg tagtagtagt 300
agtgataata atatgatgat ggtcctcctc cctgcggtgc aagagagtgg agagccctag 360
ccaggcaggc tcctcttctt ctctgtgta aaaggcttga acttgaagtt ggtactacta 420
nataaatana acccagctcc tctc 444

<210> 4867
<211> 427
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-D10
<400> 4867

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agcagcaccg cgcatatgcc ccacctcccc agccagcgca gccgccctc cgtgtcgagt 120
cctgtgctgg ccacgccgcg cgtctgcca gcaccgctct ccggttgctt taaacaatcc 180
agctccacca ctaatccatg cccctgccc ccgactcaag aggatcagct gctagcatag 240
cgggtgtgag ggggaggcct tgagcagaca ggtgactgcg tcgctggggc ggatatgagg 300
cacatctgca ggcagcggac tgtaggcaag aggcacatgg cagtgtggcg agatggtcgg 360
tggttctgtg ctgttgcgag tgggctacct agaagatgga cacgaagaat atggtgccag 420
aaatggc 427

<210> 4868
<211> 427
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-D2
<400> 4868

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agaggccgat ggtgatggca acgtgatcag ccagccagca gcttgctgga tcctctctc 120
tctggatgcc taaagtcaat atgtcaatgt aatgtaaaca tccctttccc cttcccttt 180

cttcatgtaa cttcgggtcta ctccttaaga gtcttggttaa agcttgtgct ctgtagttgc 240
 ttcagctact ggtaccgtct attgtgtgtg atgtaatata ttttggacca ttatgccatt 300
 cctttttcaa tcaatctgcc cgttgttgcc gtgagtctga agatgattgc tgtgtttgtt 360
 ccttcaaadc ctgatgaact ttaattgcta caaaaaaaaa aaaaanaaaa aaaaaaaaaag 420
 cggccgc 427

<210> 4869
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-003-Q1-E1-D9

<400> 4869
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 agacgatttt tgcaacggcc acgacgaagt gcatctctca attccaggat cagcatgctg 120
 gatgaatcct ccttgcctgt taagttgcaa tgggtgcaacc aaacaccatg gaggcctttg 180
 tattanggac ggtgaatctg catcgatagt gatggatgga aattgctcgc cctccttcct 240
 ccataaacca tggggacctt gtatagttgt attagcctcc ccatctatcc gtcaggaagc 300
 cctgactttc cctgctattg ctgtcgaaaa cgctaccctt gcagaacatg aaccgaactt 360
 aagtatcgca catggagctt caggtaacaa atctgaaaga accaaaatta atg 413

<210> 4870
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-E12

<400> 4870
 ggtaccagtc cagaattccc gggccgacgg ggagcacaag aaggcggagg agcacaagaa 60
 gaaggacggg gagcacaaga aggacggcga gcacaaggag ggcatgatgg agaagatcaa 120
 ggacaagatc agcggcgacg gccacggcga cggcaagaag gacggcgacc acaaggagaa 180
 gaaggacaag aagaagaaga aggacaagaa gcacggcgag ggccacaagg acgacgacgg 240
 ccacggcagc agcagcgaca gcgacagcga ctgagccagc tccggccgcy ctccggcagc 300

ggagcagtgg atcgcgcatg agcctgcttg tgatagcctt ttgttcacag ccagctgtcc 420
catgaaccgg gaagggc 437

<210> 4873
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-E7

<400> 4873

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ctgtttggga tgttggtggc catgacaaga taaggccttt gtggaggcac tacttccaga 180
acactcaggg ccttatcttt gttgttgaca gcaacgacag acaccgtatt gctgaggcaa 240
gagatgatct ccacaggatg ctgaatgagg atgagctgcg caatgctgta ttgcttgttt 300
ttgctaacaa gcaagatctt cccaatgcca tgaatgctgc tgaaataaca gattagcttg 360
gtctacactc tctgcgtcag cgacactggt atatccagag tgcttgcgcc aca 413

<210> 4874
<211> 462
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-F1

<400> 4874

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cggacatctt atctccgtct cgttcttttg aagcatctcg gccttcgagg accttaaaaa 120
cctattcacg atgccttcgg tcatcgtgcg gaccatggtc gcctgcgggg tagagcaaaa 180
cgatatttta gaaccaaaca aaaatttggc atgaccttcc ctaaaaatag gaccaaaaag 240
aatgcttaat gccaaaattc tcgccgaaac ggaaatgaat caacattccg gcaaaaatatt 300
ggcaactatc gcatatcaaa taccggtaca cctccaaaca caaacacata tgcaacacca 360
caaacatatg caacaccaca nacatacata gatctagcta ggccgtaaaa agtgcattgt 420

cacattgttg taaggagaac aacetaaata tagctttccc cc

462

<210> 4875
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-003-Q1-E1-F11
 <400> 4875

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 atgtttggga ctaggctccg tcgggctggt actgggaggc gctacctact gggggcgcac 120
 cttggtgagg agttagcctg tcattgaccc gaaccttctt tgggtggcggc tgcttgggcc 180
 agtgacggtc cagaggcctt agcaccgccg ggaggtggta cgtcaccatg tcagcgagga 240
 ggacgtgcac gtccgctcgt acttggttac gttggagcat aggttctcca atacctgnga 300
 ggtttctcan ggatctcact ggagctatga tcctgtgatg gttccttctc tttgggtgtc 360
 aaacgccctt cgctanggtt ttagttgtat tagtgatgtt atatgtatga tactattcgg 420
 gatgtattag tgataata 438

<210> 4876
 <211> 301
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F12
 <400> 4876

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 cataaatgac gtcgacatcg tcctctgagt cacttcattt cacctcagca gtccgatcca 180
 tgagccgtct ccatcaactt ccggcttcat acatcaattt catgcaacta tctattccgg 240
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 g 301

<210> 4877
 <211> 465

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F2
 <400> 4877

gggccagaat atccgggtcg acggggtagc catgggacgac agccagtact ctttctccct 60
 caccaccttc agcccatcgg ggaagctggt gcagattgaa catgcactca cagcggtcgg 120
 atcaggccaa acctcccttg gcatcaaagc tgccaatggt gtagttatcg ccaccgagaa 180
 gaaactgcct tctatttttag tggacgaaac atctgtgcaa aagattcagt cgttaactcc 240
 aaatattgga gttgtctaca gtgggatggg tccagatttt cgtgttcttg tcagaaaaag 300
 tcggaagcag gcacagcagt attatcggtt gtacaaggaa accatccctg tttaccagct 360
 tgtccgagag actgctgctg ttatgcagga gttcactcaa tcctgggtggc gtaggacaat 420
 ttggtgtatc actgttgatt gctggttatg atgacaatga cccgc 465

<210> 4878
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F5
 <400> 4878

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 atccgtggta cgatgaagaa aaaaataaaa aagaaaaatg gatgatcaac gatcttagca 120
 caaggaataa aaaatgatga tcaacgacct tagcggcatt gaataaaaga gaagagagaa 180
 aaaaagact tacttctactg gttagctaga ccaatgaacg ctttttttcc tcggcagacc 240
 tgataggcca agcttagcta ggataagctg gctcatttct gcgtcgtggg agtcgcctca 300
 gcaaactcga tcgaccagcg accaactagc atggctggtc cgcgaatgcc tcctaagccg 360
 atacagagct cagtaacggg ctaattaagc tggccagatt gcttgcacgg gagcgatgtg 420
 ggactacaca 430

<210> 4879
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-F6

<400> 4879

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tggtgttttc tgagtcaaaa agggcgataa atggctcttga taggcgaggg aggctccatc 120
tgagagcacg ttgtttctcg atatccttga agtggcccaa ttttttttcc atggccttgt 180
ctgaccaatt caaggtacca tgccaagttg ttttgatgtt caatgaattt tgcattttct 240
cgagttttct cagtcaaaaa ggttgataaa tggctggaca tgtcacaact tgcgtatggg 300
gacaaaaatt gttcaaact gacatggatg cctaccattg gcatgcccac ccaattgcat 360
aagttggggg catttcaagg atgtacaatc atagaccata ctgaatggat ggtgttc 417

<210> 4880

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-F8

<400> 4880

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agtgaagacg aagcaaggat gaagatctac tctgtgtcaa ctaggcatta ttttgctttt 120
ggtgccctag tatctgagga actctcctac aaactcaaag agttgcctaa agtccgttgg 180
gttcttctcg attcatacct ggatgtcaga aataaggact atggaggaga accatttata 240
gatggacaag ctgttcctta cgaccccaaa taccatgagg agtgggtgag aaacaatgcc 300
cgtgccaatg aaagatcccg gcgcaatgac aggcctcgca actttgacag gtcgaggaac 360
tttgaaagga gaaggagaa cacacaggcc taccagagtg ggctccaaa ccaaatgcca 420
ccccaagatg ctggctctcc aattcgcggt gcacagggcc cgccgccgcc t 471

<210> 4881

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-F9

<400> 4881

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ggatcagggg ttagtaatc cttgtttttc gaatctatag aggttggatt acctgattgt 180
tcttggcaaa caacatttat ccgccttctt cagtcaaaaa tacgtcggga acaggtaaaa 240
acaggcaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
agaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa caaaaaacaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaactc ctctaaa 397

<210> 4882
<211> 459
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-G1
<400> 4882

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tggattatac gcactctcac ctttcgcctt ttgctagcct cttcgggtacc gtgcattgcc 180
ctttctcacc ttgagagttg gtgcaaactt caccgggtgca tccaaacccc gtgatacgat 240
acgctctatc acacatgaac ctccttatat cttcctcaaa acagccacca tacctaccta 300
ttatggcatt tccatagcca ttccgagata tattgccatg caacttccat catcatcatc 360
acgacataca ttacttttgt catattgcca ttgcatgac atgtagttga catttgtatt 420
tgtggtaang ggcacacgca tttatttttc atacatgtc 459

<210> 4883
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-G10
<400> 4883

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 cagaagaaaa tggatgatggt gctgaggacg aggagattga ggatgacgat gctgaggatg 180
 gtgaggatcc tgtcaaggcg caatcctcat caaagaggaa gaggtctggt ggggaggatg 240
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 agtcaatttg ttcgtgctga tctgtgatct tctctgcttg ggccaagaag gaaaataatc 360
 ctcatggaga ggattgttgg taaatgctgt agcttttagga catctgtggt aggtgtagca 420
 gctcaaactt gagtctaccc at 442

<210> 4884
 <211> 154
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-G2
 <400> 4884

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 agtaacaatc gcagaggtgc tccctttatg ccctagccga actaatggga acgtagggca 120
 taagcacagg agccatgcaa ccaactttgg caaa 154

<210> 4885
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-G5
 <400> 4885

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 cttcgacggg gagctatagc ctgctgtgga gcggcaggat gcagctggtc ggcacgtgca 180
 acggcctgct atgcctctgc gacgacggcg gcagcatcac cctgggtcaac gcagcaacaa 240
 gggagacgct gcctgtccca cggcgggccg catgcgccgg ccaactattc ggcgaggaca 300
 ggaggtggca caggagtagc aacttcgctg accatccgac aacggggcgc tacaagggtg 360
 tgcacgtccc ctgcagcttc aaccgggtcc gcgacgggt acacgtgctc acgctagggg 420

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451

<210> 4886
<211> 421
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-G6

<400> 4886

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ggtcacatca gaataaggag caagacacaa ggaatcgcg cttagcttggg agataagatt 180
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tatgacatgt tttcttcaag agatccactt gccagtgtca tactagaggc acaatgggat 300
tgattgaatt aattacagga agcttttgtg tacaaaatat caaagagaag aatgataaaa 360
gaagaggatc gtagggaagt tagtcttggg agctgaaaaa cgatcttgac acttcctttc 420
g 421

<210> 4887
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-G9

<400> 4887

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gggaaccaga ttaatttttg tgctgttggg aggctagtaa tggggttcag actgtaattc 180
ggtggctgga tactagcttt gtatcctggg taacttgcta gttgctatac ccctgtaaaa 240
ctcttttcta atttcaatga aatgctgcat catgcagtct tttcgtcaaa aaaaaaaca 300
aaataaaaaa gaacaaaaaa taaagaaaaa aaaaaaaaag acaaaattaa aatgaatata 360
ccctaaaaaa caaataaata caaatcaaa aaactacaaa aaatgacccc aaactttaaa 420
ttaaaaaaaa actgcggccc cccca 445

<210> 4888
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-003-Q1-E1-H10

 <400> 4888

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ttggacaata agtcgccagt atctatttgg attgcgccct tggaatcatg cgcttataaa  120
tcattgggta tattgttcaa atctttaata gccaacatgg ctggattttt attatgggta  180
tcaataacca gtattatgat taaggttttc aaagtcgctt taacgcaatg gatatcgat  240
tatcaatgga tatgatttat tctacagttg aaggaatagt cccaagttgc tgcaggctta  300
cgacccggca cttgggggct acattatttc aagttgagat tacatcaaat atgcaagtct  360
catgtcactg caagcatgca ccatgacact tgggggctaa tgcaaagtca ttttttgc   418
  
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<210> 4889
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-003-Q1-E1-H11

 <400> 4889

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gcaggcgaga tcagttaacc tggttaagcgt cctagcccg ataattagac aaaataggtg  180
ttttttggtc aacttagcaa aattagatct ctgacangtc agatagattg ttcttaatcc  240
cacttgctcan gtattatgtg aactattgga ccacgttgta gatattcgta aatgctgtcc  300
ggagatatac tcgtccactc gggaaaaaaaa annaaaaaaaa aaaaaaaaaa aaaaaaaaaa  360
aaaaaaaaaa caaaaag                                     377
  
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<210> 4890
 <211> 397
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-003-Q1-E1-H2

<400> 4890

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atggtggact acgttacaca aagaagtga aacgttcata ctgatactct cattgaatcg  120
gaggtggaac aaaacgctga gaatcaaata ccagatgacc cttatgaggt catatcaatc  180
ttcatggatg atttcagtcg cacgaagagg aacatcattg gccatgtctc tgggtgggtg  240
ttgagcgaca gccgcgaaga taagatcgat gattttgtcc aggaaatgga tatgacccgc  300
ttctggccac tagaaaggag agaagggatc gccgaggtcc tctcaagaa tgtggacatt  360
aaaactaagt ttcactgccc tgagaaatat gaaaacg                                397
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<210> 4891

<211> 430

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-H3

<400> 4891

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ttccctgaaa acttcaaaaa ttggtcaatg gtttggggca ccgggaaaac ctttgcaaat  120
ggtggcccaa tttggaattg ggggaacctc ccttggcctc cggtttgtgc aaacgggtccc  180
caaaactgac caaaaagcac aaaatgtgcc aaaaggcgac aactgagatt ttcttgcaat  240
gttgatccag ttgatggtgc acggggcatc caagatttag accctgcaac tactcttgtt  300
gtggttgtct caaagaactt cacgacagct gaaacaatgt tgaatgctcg aactatcaaa  360
gagtggattg tctctgctct tggacctcag gctgtntcca aacacatgat tgctgtcagt  420
actaatctta                                430
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<210> 4892

<211> 440

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-003-Q1-E1-H7

<400> 4892

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ttttgaattc tcccaactac actatatcgg agaagtttgc acttattaag gattatattg 120

atgggcttcc ttttaccgtt gtacatgatg attctgatag atataatatg catgtgcttg 180

ctgctcctac ttacaattat tatgagagag gaactatacc tccacctctc tatgtttcca 240

atacgataaa attgcaagaa actgtttata ctatgcatta gcctttacta cgtgtgcatg 300

aattgttctt ttatgacatg ccgatgcata ggaagagagt tagactttgt cattgcttta 360

tatatgtctc tttgtgctca ctactaaatt acaaatcatt gttaattaaa attggctttg 420

atataccttg ggattccggt 440

<210> 4893

<211> 466

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-H8

<400> 4893

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gatactttac tgatgttatc tatggaaata ggaatggttt tcttactgta tttacagaac 180

cattgagttt tgtcggtgaa tcttacattg tcagaaaggt tagaaaactg gaagcgtaca 240

ttatcaatta ttggtacaag aaagggcaca gaccactcaa gcaccctttg ctccctgatg 300

caagaacgat tgtgaagttt gatccgtgtg aaggcccagt ctcacctaga gcatagcaca 360

gtcatgtact cctccgttc ggaattactt gtcacagaaa tgggtgtaac caaatgtat 420

ttaagttata gatacatcaa tttccgagac aagtaattcc gaacgg 466

<210> 4894

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-H9

<400> 4894

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cagttcgatt cacgtcaacg gctgggttcgg caagcacgac aagctgagcg ccagcgtgtc 120

gctcgcgcg cgcgcattcg gtctcgacct gcatgccgag cgcgaacgct ggggtgttcgt 180

gggagactcc gccaacgatg cggcaatgtt cgagttcttc ccgctctcgg tgggtgtggc 240

caatgtgctg gacgtgatcg atacgctgcc cgtgcccccc gcgtacctca ccgaggccga 300

aggcggcggc ggttttgccg aagtcgccga gcgcatactg gaagcgcgtt ccctagccct 360

ccccgcgccc cgcgactgac acggcattcc tgcaccgcaa cacgcgctgg agaccagcg 420

tcgcttgccc ca 432

<210> 4895

<211> 367

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-A2

<400> 4895

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acagcggagc tctatttgat tcaatcttag gtacgcctgc atgataggtt catcctctac 120

gatactgaca gctaaattca attcagtggg cgtcgtttga gaaatttgat actggaagat 180

ccctgtgggt atgcaaattg ggccccttgc agcaaactctg cctttcacca tctaggataa 240

tagccaagag gacagcatgt ataggtcttc ccaccagttg cacagccaga atgagtaatg 300

ggattcacca tgtagcggca catttagcac ggctcgtgtt ctagttaacc gcatcgtgac 360

tgcaaca 367

<210> 4896

<211> 437

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-A4

<400> 4896

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gctcctcacc ttgctctccc atggggcatg gtgcgcagca gcagcgcgaa gcgccatggc 120
tgaggatgcg gctcgtcatc atctgaggcc tcatcaccat ggcaagaggc tcctggagat 180
acagactccc aggaaggtcg ggcacgcgac aggcggatcc gganggggca gcagcggagc 240
ctgcatgagc ggtggcggcg gcacggacac aaggccacac aacagcaaga atggcggcg 300
catggcgctg ccagctccag cgacctccct cctggcgctg gttctcaccg ctaccattct 360
tctctcggcg cacagcttct gaagcactcc ctccgttcct ttctacaagg cgttttggac 420
agctgacatt gaactgt 437

<210> 4897
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-A6
<400> 4897

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cccggtgggc atattttcat cagggagtcc tgcttcacc agtctgggga ttccaagagg 120
aaagtgaacc cgacgcacta ccgggagcca aggttttaca ccaaggtgtt taaggaatgc 180
cactcctatg accaagatgg gaattccttt gagctttctc tggttaacttc caagtgcatt 240
ggagcttatg tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc 300
aagtgcacag aagacaaagg ctttcagaga ttcttgaca atgtgcagta caaatccact 360
ggaatcctgc gttatgagcg cgtgtttggg gagggttatg tcagcaccgg tggatttcga 420
gacacaaaag aatttgtgga c 441

<210> 4898
<211> 452
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-B5
<400> 4898

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caagctgttg gaaagtaaga ggtttgagcc aagctattct cagaataaag cttagaccg 120
accttgttgt tggttggtat tgtaataaga agaaaataaa gaggcataaa aagatgttat 180
ctaccacata tggatgaactt ggatgcagtt taccacatct ttccggtctt gaagatcaat 240
gcatcaatat agatgtcatg tatttatcat tataatcatg ttgttccggg aatattggtt 300
cttgatttta gtcattgatg gcaacagatt gaaactatta ctcaaaagta caagcatata 360
tcatgtcgtc gccaaatgtc atgcgtatac ccattttggc tgtgccgtaa agtttccctt 420
gttacattca cggatgaaat aaagtttggt tt 452

<210> 4899
<211> 426
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-B6
<400> 4899

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taatttggtc acccaccgta atactaatgc tatcttgaga gaagccacta gtgaaaccta 120
tgcccccccg gtctatctct tatcatattt gctttctatc tacttttatt tgcattctta 180
ctttttgcat ctatattata aaatacaaaa aatatatcta tcttatcata ctatctttat 240
tagatctcac ttccgctagt ggccgtgaag ggattgacaa cccctttatt gcgttggttg 300
cgatttctca gtttggttggt gtangtgcgt gggacttttg aggagcctcc tactggattg 360
ataccttggt tctcaaaaac tgagggaat acttacgcta ctattgctgc atcacctct 420
cctctt 426

<210> 4900
<211> 435
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-B7
<400> 4900

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agtagatcca tctagtagct ttttcctggg gatttggtta gttaaaagtt agccattgca 120
 acttcgtgta cttcgtttgt gtccaacgac cagaccaaga cgccttacgg atccccacct 180
 ttatcaatac ttcatatata ctgcgaatat tcggattgct tttatcatat tcttgcttgt 240
 tcttcgattg cttgcaggaa tagaccttcg tggtcagggtt gattgtgctc cggcgtggtc 300
 aataacctct cgggggttggg ttagcgattg ctaaggcaca acgtcgtgca cgttttagt 360
 cggatcgtca aagtcacttc caccaaatcg atagttatca tcccatcgaa agatcgggac 420
 acctcgctc tatca 435

<210> 4901
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-B8

<400> 4901

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 tgtttgccat tcttagaatg ccattttatt ttgctttgct tgctgtttga ataaaatacc 120
 aagatctgaa attattaaat gttagagatt cttcgcatag ttgcataatt attcgactac 180
 tcattgatct tcaattatat ctttcggagt agtttgcac ttgctctagt acttcactta 240
 tatcttttag agcatgggtg tagttttatt ttgaataaat agatgaactc tcatgcttca 300
 cttatattat ttgagagtc ttaaatagca tggtaaattg cttaaaatcc taagatgtta 360
 ggtatacaag attagtaaaa aacttcctat gagtggtttc aatactaaga gaagtctgat 420
 gcatgatgat tgttttgaga catggaggta ataata 456

<210> 4902
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C5

<400> 4902

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 gatcgacacc gacggtgacg gcttcacga cttcagcgag ttcactcct tctgcaacgc 120

caacccgggg ctcatgaagg acgtcgccaa ggtcttctga atcagttcat ttcacctcag 180
 ccgtccgttc caggagccga tccatctacg tacggcttcg tatatcaatt tcatgcaact 240
 acctactccg gtcccgatcc agcctcagct tcacctgagg ccggccctaa atttgtttga 300
 tcaattcttt tgctactagt agtaactagt gatgatcact gttgcatcat ttattttattt 360
 attttatata tcatcacaag tttcctgtga ttcttttctt tctatacctt tttgt 415

<210> 4903
 <211> 462
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C6

<400> 4903

taccagtcaa gaatgcccg gtcgacgggg cagcaaacag atgcgctacc cacgattagc 60
 agacagggtc atatgcatgc tccaacttga tcaaggagga gagctacaca tgttttatgt 120
 tattttacct aagatagagc agcagcagtg attagctagc tagaaatgag tttgaggatg 180
 atgatgtgct acgctattac tatgatgata aaatagcgag tgttggtagt aatgactatg 240
 atgattatta ttagctagtg ttagtggtga ttaaataaat attgttgatg gtaatggcta 300
 tgatgatgat taaatagctt gtgctggcgc attagattca agtggaggta acatgtggtg 360
 cacattgaaa gtactactag tccaaactga tcacgtttgg attagtagta tacttttgac 420
 atgcaccaca tattgcctcc acttgaacct aatccacctt ca 462

<210> 4904
 <211> 385
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C7

<400> 4904

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 agcagggtga gttcagttca gctagaggaa gacgaaggcg tttcgatcag tccgatctcc 120
 tgctcctttt acatgatgat tactattatc ttaatcttag tgcagtgtga tgtaatatgc 180
 accatgaatt ggtagtgcag tgcagtgcag cacagcacat ctctgaacct gggaaggtag 240

tactagcttt cttttcactc agacaagtcg ggaggggggtt tcttgtcagt tagtcggttt 300
 ctggcttgtc agttactgtg gtgcgtgtcg tgtggatcga gttagttgta ctaccagaaa 360
 ttcgggatga caggaacca tgcatt 385

<210> 4905
 <211> 219
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C8

<400> 4905

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 gatggatgct tgagccaagt gtggttgtgt gtaattatgg tccttatgtc gacgtgttaa 120
 ttgtcgtgat ttgccgattg gtactctata tgtttgcaa ataagctgtg caccgtgtgc 180
 acctttggaa cagtgaagta gtaattattt tgtgagctt 219

<210> 4906
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D10

<400> 4906

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 ggaggtggtg gccttctgcc ggaagaacct ggcggcgttc aaggtgcca agaaggtgta 120
 catcgccgcc gacctgcca agacggccac cggcaagatc cagcgccgca tcgtcgcgca 180
 gcacttcttc gtcgtgcccg ccgcgcgcgc caaggcctat aagagctcgt cggtcggtcg 240
 atcgatcacg tcgccgtctt ttgtcccttt tttttacgtg ccagacagaa caggggattg 300
 ataatgaaat tgcgcgccac atgacattgg agagcggtaa aagttgtggt tgatttgatt 360
 gatgaagatt aaaaaaagac aaccaacaaa aaacaaaa 398

<210> 4907
 <211> 329
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D5

<400> 4907

gtaccagtca agaattcccg ggtcgacggg gaagacgagg acgaagaata agactaggaa 60
gaagaagacg acgaatatga ctaggatgac gatgatgaag aatactatga ctaagaagaa 120
gaagtagatt atgaagagga ggaatatgaa gaataagatt gagattaaga agatgaatat 180
taataattat tcgaagatta tgaagaagaa taagaagaag aagatgatga tgaagtagat 240
cgaatatcaa gacgactgat aataataata atgagaagat cgtgacttcg aagatgaaga 300
cgaagattag gattgataag aagacgaac 329

<210> 4908

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D7

<400> 4908

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ggcaccagca gcttccagag cagccagcta acaccgtcca gcggcgagca cgagcaggag 120
caccagaacc cgtccgtccc gagcagcgac ggccatcagc agacgcagga ggtggagttg 180
gggactagta cgaagcgaga cgacggcgac gtcgagagcc aggcttccat gagatgacca 240
ctttcccttt ccttggagag agttaacctc aggacatcat ttgtaaatcc acagcatagc 300
tgaattcaca taagctgcc a gctgacttgg ttgcaacgaa caaaaatgat attttgttct 360
tgagatatat atatatagtt cttttgttag acac 394

<210> 4909

<211> 371

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-E1

<400> 4909

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tgtttgtcca gcatgactag cggtctggcct gagcctgagc ggcggcactc tgccacgggc 120

acctatgaac ctgttttctt ttgcattgtc tatctagatc taggcatgtg ttcacttagg 180
 ccgaggattt gtcattggtta tgtttttaga tcggtgaggg tgtggtggac ggaggtggcg 240
 tttgcttttg ccagaaata atggtgttat tattttggat ttaaagagg aggtgtgatt 300
 tgacggatat agtgttgctt ttttgattct acatgtctga tgctccctac gccacaattt 360
 actanggatg c 371

<210> 4910
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E5

<400> 4910

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 cggcgagcag aagtgggggc tgttcatcgc gaccaagtga tctggccgct gagcagcgac 120
 gccatggacg cgatgattcg ggagcagagc agcttctgtt aagaaataaa taaagaggat 180
 cgggtgctga caatgttgtg gccgtgtgtt ggggtgtgatt gtttgtttgt tgcagtggct 240
 gcattcactg gctgggcacc aggatctata agataatgtg tacgtacgta cgtactgtat 300
 tcctgaactt gtactgtgac gagcgagact cgctttgtaa cgtgctattc tgttgccaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgctct 398

<210> 4911
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E6

<400> 4911

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 gagtaagtgg ttcattattt tgcttgtcac atgcttattc cggttgttat ttattttgct 180
 tgtcacatgc taatagttca ttcttttgca gaaactggat atattctaaa ggggtccgta 240
 ttcccaacgg cctcatcacc gtcttctgta agttatattg gccgggggttg tactgtccgg 300

attcagtcag gcagctggac tgtcgggttt tggccacgag ctgggaacac tgggaagcgg 360
 cccgccacgc agaacatgag aaccatgcc aaggcgtgat cactac 406

<210> 4912
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-F2

<400> 4912

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 ctatttatag acagggtaaa tacccaagca tcacgggtcaa accctaggtg gcgtagtaac 120
 tttttgctaa gaaggcgctt cggttctctc tttgacgtga tttggcctag attgggagta 180
 ccaaaagaga acgggcaaaa ataaaagata agtatgaaag aagtattcat gaccagtga 240
 atggccgaga ggtggaataa gagacatctt agctcgaagc atggggcaaa gctgactctt 300
 gctggtgaga cccgtatttt ggtccttgat acttttaact gactctcatt ttcagggaaa 360
 gcttagcagg aataaatcca atctaacttg aggataatg ttggggatac tccccacggg 420
 cgagacatan agatctatat attggaagcc tatgtttgga catcagaatg g 471

<210> 4913
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F3

<400> 4913

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 aatttgagga atacttgtgt ggaagtgtgt gattcccgta gcatgcacgt atggtgaacc 120
 gctttgtgat gaagtgggag cataatttat ttattgattg tcttccttat gagtggcggt 180
 cggggacgag cgatggtctt ttctaccaa tctatcccc tatgagcatg cgcgtagtac 240
 tttgttttca atggcttgta gatttttgca ataagtatat gacttcttta tgactactgt 300
 tgagtcgctg gagtatacgc acgctcacc ttccaccatt gctagcctct cttgtgccgc 360

gcaacttttcg ccgggtacat acacccacca tataccttcc tcaaaacagc caccgtacct 420
acctattagg gcatttccat agccatt 447

<210> 4914
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F5

<400> 4914

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gattttcatc tcgcagatga cggcaatggg tggtgccaaa ggatcaagaa cgacttcaca 120
tttgagtaca acttccttga ggatgaactg tcagtacagc catactaagg caccattgcg 180
gatcaccgtg ttcgatcaaa tacgactcgt gtaattttca caatggaact gctggtatcc 240
ggaaccaatt cgaactccac aattgtaagt tgtaacctg ttggctaatt tacat 295

<210> 4915
<211> 464
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-F7

<400> 4915

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tgcgggggtgt gcccagctc ggtgatgacc atgaggatgg gcattcagcg gcgtttgatg 120
gatgaaatac cagagattgc tgcagttgaa gctatcacgg acaaggacgc tgggcttaag 180
ctgaacgaag agaatgttga gaaggtactc gatgagatca ggccatacct caccggtgca 240
ggaggcggta atctcaggtt tgtcgcatc aacaaattct tcgtgaaagt ccaactcaag 300
ggccctgcag caagtgtggc ggccgtccga gttgctatag cacagaagct caaagagaag 360
atcccatcca tcgcagctgt ccggetactg ccgtaaactt caactgcana acattgctgt 420
gaatatctgg ttatccagga gaatgctatg aatgcgctaa ctga 464

<210> 4916
<211> 461

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F8

<400> 4916

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agctgcatgc tgtggatctt ctacgcgctg gtcaagacca actccagccc gctgctcacc 120
atcaacgcct tcggctgcgt cgctcgagggc ttctacatcc tgctctacgt ggtgtacgcg 180
cccagggccg ccaggcaccg cgccctcgcc ttcttctctc tctctgacgt cgccgccttc 240
gccctcattg tctccgtcac cgtgctcttc gtgccccagc ccagccgcgt caaggctctc 300
ggcagcgctt gcctcgctt ctccatggcc gtcttcgtcg ccccgctcag cgtcatcttc 360
gtggtgatta agaccaagag cgccgagtag atgcccttct cgctctcttc cgtcctcacc 420
ctcagcgccg tcgcttggtt cttctacggc ctcttcacca a 461

<210> 4917
<211> 469
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-G1

<400> 4917

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tcggtggcga gcatggaggc gagtcaccgg cgagttgcgg caccggtggc aaacatgcgg 120
cagcgagcgt gccacggcgg tcgctcgtg gtgaaggcgc gggagggtgtg gctctcatcg 180
aggccaacga cgacgacggc agtcggcgtg acaagatggc atttgcggcc gtctgcgtgt 240
tgcatcgatg acgtgaacaa tcattggctt caagagagaa ataagttaac aagattaggg 300
agggtgaatg tagaactaat cttgttatta gtgcgtacga ttagatatgt ttatatcatg 360
cttgtagttg agctgcggct gtgtgcacac gtcaggttgt gttcagtgcg caaggcanag 420
ctaattatgc atggtagtta gatgcatgcg ttaaagctcc gcgagtcgg 469

<210> 4918
<211> 437
<212> DNA

<400> 4920
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 actacagaat ctctgtggag gtccaaatat tgtgaagctg cttgatattg tcagggatca 120
 gcattcaaaa acaccaagct tgatctttga atacatcaat aacacagatt tcaaagtgc 180
 atatccgaca ttgacagatt atgacattcg ctactatata tatgagttac tgaaggcttt 240
 ggattactgc cattcacaag gcattatgca ccgagatgtg aagcctcaca atgttatgat 300
 agatcatgag cttcgaaaac tccggttaat agactggggc cttgctgaat tctaccatcc 360
 tggaaaggag tataacgttc gtgttgcata aagggtacttc aaggggacctg agcttcttgt 420
 tgactttcaa gattacgact actctttgga catgtgg 457

<210> 4921
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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<400> 4921
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 gctcgtttac ctgacctat gctttgccct ggctcatct gccgtgggtg cttacctgca 180
 cattgcctg aacatcgggtg ggatgctgac aatgctcgcg tgtgttgga ccatcgctg 240
 gatgttctct gtgccagtct atgaggagag gaagaggttt gggctgctga tgggtgcagc 300
 cctctggaa ggggcttcgg ttggacctct gattgagctt gccatagact tttgaccaag 360
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 catcatcgct aagcgcaggg agtacctgta 450

<210> 4922
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-H5

<400> 4922
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 ctggaggtaa agagaataat aaagaaacag agctcgcatg aatgtatttt ttccttactt 180
 ctacgtatat cctgtacgca tgaaggacaa gcttgacgac gtgtcgccgt tcgtgcctat 240
 gagccgcggt atggaacaac tcctagacga ggtgatggaa aacatggacc aagatgagcc 300
 gtccacaaaa tccgcacctc tggccaagtc tagttcggtg gcgatgcaca cgcctccggc 360
 aatgagtgat ccagctgcga attcttcaac tgtggcaggg agcaatctcg tcgcaaaacc 420
 cgctccctg gtgaccaagc ccgctttctt taacacatca acaggca 467

<210> 4923
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-H6

<400> 4923
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 atagatgacg acttaccaag tttgggggat tgtacacgga gaatccgtcc cgcggtttga 120
 tatggaggaa gtctttctct tctcctttgt acaggtcgga tagtatactt gccagagcgg 180
 tgggggagtc cggaccctta cggccacagc gcgtggcatc gtctgtcccg ttgtagtgcc 240
 acatgggatt gctccgatat tgaagtgggt gcaactcccc cattatgcat attgccatca 300
 cctcgactat cgtcagtcag gatttgcca gtaattttat cctgctcatc aggaaatgta 360
 cttccttgca atcctcctct tgggggcctc gggggtgcca gcttagacgt gccctcggcg 420
 ggggtgttaca gaacttgggg agtcctatcc ggact 455

<210> 4924
 <211> 465
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-H7
 <400> 4924

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 gcgaaaaggc ttattcttcgc gttacaccaa tgaaggggtgc tcaccgcttc gggatcaagg 120
 gcaaactagc tcctcgctat attggccctt tcaactattct ggaaaggcgt ggaaaagtgg 180
 cttatcagct ggagcttccg ccgaaccttt ctcaggttca cgatgtgttc cacgtgtcac 240
 aactccgacg ctgcttcaag gacccaatcc gagcagtggg ccatgaagtg ctccaattgc 300
 aacaggacct ctctataaa gagcatccgg tccgcattct cgaccaagct gaacgccgca 360
 cacgtcagaa ggcgatcaag ttctctaaag tccagtgggc gaatcactct gaagacgaag 420
 ccacctgnga acgcgaggat cgtctacgag atgaatatcc cgcac 465

<210> 4925
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-H9
 <400> 4925

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 ttctgcagat tagccaaaac attcatgtag tgtttgtctc attactaagt agtatgactg 180
 agtcgtcaaa accaaatgtg cagtctgtgt gcgagaagac aggtcagacc gctccgccga 240
 tgccagtgat tgttcctggg accacggtga gttttatttg aatggaaatt acttgctagt 300
 cttaacattt gagtgtcatc atgctaaca gacattggaa atgatacttg gtgcagcgta 360
 actccagaca agcatcgcac gagccttctc cagcttacga catgagccac cccgctccta 420
 cacctctgg atcttggtg 439

<210> 4926
 <211> 253
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-A1
 <400> 4926

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 cgcgccagaa aagcttaccg cactggacgc tgctcgacgg ctgaactaag tttagcattg 120
 ttgaagcata tctagtcctc atccgtgact agtgtgcaag cagactgtgg cagtttggct 180
 ccagttgtga aagtcatttt tgtttgtctg agacatcttg gaaagaacag tgtaggaatg 240
 aagtatttct gtt 253

<210> 4927
 <211> 228
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-A12
 <400> 4927

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 tatactatca tatattattt atcatctcag tcagatctca ctttcgtacg ttaccgatat 120
 tggattgaca acccctaagc acgttggttg cgtaaatcta ctgaactttg tgtacgtacg 180
 agggactcca gcgttgccctc ctactgggtt gttactttgg ctcacaga 228

<210> 4928
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-A7
 <400> 4928

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 agaatgagtt cattacagta cattaaagta gtcttttggt ttctttctct aacggagctc 120
 acgagatttc tatcgagttt tgtgttggg agttttcaag ttttgggtga attcttttga 180
 tggattatgg aacaaggagt ggaaagagcc taagcttggg gatgcccattg tcaccacaa 240
 gataatccaa ggacaccaa aattcaaagc ttggggatgc cccggaaggc atccccctct 300
 tcgtctactt ccatcggtaa ttacttga gctatatttt tattcaccac atgatatgtg 360
 ttttgcttgg agcgtcttgt attatttgtg tctttgcttg ttaatttacc acaatcatcc 420
 tttct 425

<210> 4929
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-A9

 <400> 4929

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 ggggttcgggg ggaacgtggg gcacgaccog catgtcctct acacgctcag cgccgtgcag 120
 gtccctctgcc tcttcgatcg gctcgatggt catgatgcag acaaaattgc tgactatatt 180
 actggacttc aaaatgagga tggatcattt tctggtgata tttgggggtga agttgatact 240
 aggttctcgt acatttccat atgcaccttg tcattactgc atcgtctgca caaaattaat 300
 gtggaaaatg ctgtacaata tattgttagc tgtaagaaca tggacggcgg atttgagct 360
 atgccaggag gggagtctca cgctgggcag atattctgct gtggtggtgc tctcgcaatc 420

<210> 4930
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-B3

 <400> 4930

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 atgtcatttc atatatttat cctttccatt ttgagtcgct gaaactgctg agtgatgtgc 180
 agtttgctct gttggctgct ctgtcacttt cacgtttcat attctttggt gtgtagttcc 240
 tcatactgct ctttcttcct gagtctcgga aagaataata aagagccatg tgtaattcta 300
 ttgcactgtt ctcccaaaat tgtcattatt ttaagcagta ataataataa taactctgta 360
 ccaagtctca gtaatacctg aagttgatcg aatc 394

<210> 4931
 <211> 252
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B5

<400> 4931

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 ttgcttttgag aactgtaagc gtgtttaacc tgacagcgcc tgtaattgta ggccctttcc 120
 gcataacttca cagcttggtg tcttatgagg tgctgcaggg cagcaggctg gtttatgccg 180
 cctcggtcatt tattatcatt tgtaacttgt tagagtgcac attaattctca ggaggacata 240
 gacataatac tt 252

<210> 4932

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B8

<400> 4932

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 ttgtgccatc tccaagaatt gttatccttg tatcatgttt gctgctgcaa tgcaatgcag 180
 atgtagtggt aacttgccctg cttctttttc atgctcccat ccgtgcttcc tcatacatgg 240
 cctcttgaaa gaaaataagc cccggtccca ttccctgaaa atcaggggat gattagatta 300
 gaaaagaaaa agaaaaaaga acagccgtaa gatgaagtga gagcacggat gcatacatgg 360
 cttgatttga ttggaagaaa ataaagtccg gcaacact 398

<210> 4933

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C1

<400> 4933

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 gccttggaag agctcatgga cggaggagcc gaaggggaag ataggattag gaaggttcag 120
 gagctgaagg cgaaagcgaa ggctgctttg gagaacggcg ggctcgtcgtg catgaatctg 180

gacaagctgg tccaatccgt cgtctgaaaa ttagcgcagc atgtcggccc tgaataaatt 240
ctgctgcttt cgctcattga tgaacagatt ggggttgctt cttgcttgct tggaagatcg 300
agagtgaaaa acatatccta tgttgtaagt tgcaactgta tctcatgcca actcagtcta 360
caagtctctt gttaggcgct gcctgcttcg taaaaaaga taacgaagct ggcagctgct 420
ctaacac 427

<210> 4934
<211> 307
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-C10
<400> 4934

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ctgaaccacac tacctacatc aatgctccct tggtaggggt tcttgcttac ttcggttgga 120
acccaaaccc aggccatata agacactgag cataagcact ttgccatgta gatagagaag 180
agtgacagaa gctataaata ggtacacagg aagcaaatag gcttgatgatt ggatggcact 240
acatgttcat aggagtggat tgcagagcat gtgttctacc aataatgaga gcttatcttt 300
catgatt 307

<210> 4935
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-C2
<400> 4935

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ctgctgggtgc tggtaggtgc ggcggcgggt gtgggtggctg cggtaggtcgc gttccaccgg 120
aggccaaccg cagaactcgt gtcgcccctt acccgcagcc ttcgcgaagg tgatggacgc 180
gccgggtgctc gtgacgtgca cgcaccgctg cgcttgtagg agagagatca gagcaagaag 240
agagcaacca gcgtgaaaaa aaacattagc aaatcagaat tgttgctcga tccccttggt 300
ggggtgggtta caacttagtg tttagatcat cgttgatgac aattgacgcc gtgatctgt 360

ttaattgtgt tcctttggct ggttgggtgct tcagtcgcag ccaagaattg gcgtgga 417

<210> 4936

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-005-Q1-E1-C6

<400> 4936

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cacggcgacg gcaagaagga cggcgaccac aaggagaaga aggacaagaa gaagaaggac 180

aagaagcacg gcgagggcca caaggacgac gacggccacg gcagcagcag cagcgacacg 240

gacagcgact gagccagctc cggcccgcgc tccggcagcg tgcaggcgag atcgatgatg 300

aacacttggg agaagtgtga cagacatata tggtgcaggg tttggagcgt gtggtagcat 360

atgtatgtaa tgcgtgacat gcctcatgga tcntgtgatg tataataatt agccggccgc 420

actgcactga acngtgcctt gtaataat 448

<210> 4937

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C7

<400> 4937

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attcaattga gtatggttac cgggtcccct ttggcagcgt acatgtcttc atcggaaga 120

tcggtgagcc tgggactgag ccggacatct acaccgaccc cgtcgagacg gctcagcgtg 180

cgagatttac tcagggtaaa ccggccatga agtgtgcctt cgttggagtc atctacggag 240

gagagcgcgga ggacgaatca gagcacgaca acgagaccgt cgtctattct ggcgacgagt 300

cctcgaccgg agagaccgag tcgctatacc ggatgcaaga cgatcagggt aggggttggt 360

ccgatggcga tagtattccg gacccccag gccagatcaa ccggg 405

<210> 4938
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D10

<400> 4938

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 ggaagcaggc gagcaagttc aaggagcagg tcgccaagca gcagcaggct gtgataaaac 120
 aattcagcac tactggttac gagcgttcag attctgttgt cattgatgaa gttgaattac 180
 agcaacatca aaggcttgag aaattgtaca gttctactcg ttctggaagg gatttccaaa 240
 aggacatagt tcgagcagct gaaggcttgg tgtctattgg aagcaagcat attgaagtgg 300
 gaacaaaatt ttctgaggat tgctatagat atggaggtga aaataatgct gatggtgaag 360
 ctcttcaaaa agccgcatca ctgtatggag gtgctttgag aaatgttgaa aaagagtatg 420
 aagatttcaa tagaactt 438

<210> 4939
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D11

<400> 4939

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 tttatttaaa ccaaaccaat gttcagaggt acaaaagaaa gatcaccagg gtgtcctaata 180
 caaacatggc ggcccatcct taactttaaa ctatgcttcg ctagattatg agccttgaaa 240
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 atttcatgta agatcccaca tgctggcgtc caactgggct gaccattag cgtgaagttc 360
 acacgtagtg cacagtagct actcgggtca tgctgattgg aaatatcact atag 414

<210> 4940
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-D2

<400> 4940

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tatatatcaa gtatactcca tatatagata tatgggtatgg aagcctatcc occatataag 120
ataagacggg gggataaaaa gaagggaaaa tgaaaatagt taattaagtt cagaatggta 180
ttccataaag gaaaggaatt ccaatcaaaa caaaaaatac tgagtctctt aaacaagaca 240
ttctaaaact taggtaatth atagtcatta ggatttttagt tctatatgaa gtaaggacta 300
ttcgataatt tcttataaac ataggthttc attggaattc actcaatcag ttaattatgg 360
aacaagagag ctgtttcatc tttgtthttaa agaaatataa aaatgaatta tgaatagaaa 420
gtanaatgat tcaactthttt thtt 444

<210> 4941
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D5

<400> 4941

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aacatcgtgt cccttgtctc ctgttaccat ccgcctagac gcacagttcg ggacccctac 120
ccgagatccg ccggtthttca caccgacaaa gatctaaaac ttattgatgt gtcccttatt 180
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aggcattcta agaattcgga gtttctagat ctgtagatg aaattgatga aagtgggatt 300
gaaaaacaat aaaaacctag atgttgctaa acccactatt ttggatctca aggaatttaa 360
ttatgaaaat tgctctthga ttgggtgtat thccttgthg caatccgtgc tagattctcc 420
tc 422

<210> 4942
<211> 455
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-D6

<400> 4942

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tagcccatth agtgatccat aggtatatag gcttatcaga aatcccaggg tgggccgcgg 180
cccaccctgg ccaccctgta gctccgcccc tgacgggata catgggtagg gacttcatgg 240
aaggcggact ccatttaatc ctttctagct gcttactgaa caccaagccc tatttgatat 300
gttgaatgat tgttatatag gtgaaggaat cgacgaagaa gcttccgttc agcatgctat 360
gtcaatggaa gaatatctga agcagacctc tgctacttct ctattctctt tcattcgtcg 420
tgggcagccg aattggttga aataattatg ggcag 455

<210> 4943
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D7

<400> 4943

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gtgaaatatg gggcttgacg catcaatgcg atcaaaccct acgtagaatg acatgagact 180
ctcatagctc gtcatacaag ctcaccacat cacagatcag aggacgtcat tgaacgaact 240
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accacgtgac at 312

<210> 4944
<211> 429
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-D8

<400> 4944

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tcctggctag gttggtttat tcagttgcta aaacgagaat gtacaactta gttatttttc 180
tagatggcta gaaaatagtg gtatcaataa atcttattag gaatttccat catacttaat 240
agacgtacaa acaatttgat tttttttttt gtgaagtaca cattgtttcc aatgtttgga 300
ttaccgcccg tanatggggg gcctaccgt tgggtcttga gaaaaaacga gacatttctt 360
aactactctt tttgtagaac taattttgtg caatctttca tttttaaacg gaatgcatta 420
cacattttg 429

<210> 4945
<211> 446
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-E10
<400> 4945

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ggaggtagag cttgactctc tcggttcatt tttatacat ctcattgaca atgattgtta 120
ttaggaggaa gccaaaggcca gccgtgcggg tgacgacgag gtaattgttc tttcctccgg 180
ctcagagtct gtgccaaaac agaaaactcg tcaggcaagc cggaaagtaa ggttttctca 240
tcctttggct tatttggatc ccaactttat tttgaaaaag cagcaacatg aagcttgccg 300
cacgaccggg aatagggaaa gcgggatcct ttcctccggc ttaccgaaca cccagcccc 360
tcacaaacgt cgtccagagg tctcaacaaa ctctgactta acttatccca aggccggtct 420
nttacgacaa cctcttaacc ctttca 446

<210> 4946
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E11
<400> 4946

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aagaatgatg acctcgaaga gtcceaagaa ctcggttctg gaacttttgg aactgtatat 180
catggtaaatt ggaggggctc tgatgttgca ataaaaagaa tcaatgacag atgttttgct 240
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gctgatctgc accaccccaa tgttgtggcc ttttacggcg ttgttctaga tgggcctggg 360
ggatccattg caacggttac agaatatatg gttaatggct cacttaggac ggctttgctg 420
a 421

<210> 4947
<211> 427
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E5
<400> 4947

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tggacgcgac caatggcaga aaccgcatcg atagcaccac caccacaacc aatggcacca 120
ccgaaccag tggaggacaa cgcaacggcg gcaccgtcac aaccaatggc accacctcaa 180
ccattggcgg aaaacgcaac ggcagcacca ccgcaaccaa tggcgcgaaa gcgcatctgt 240
cgttgtggtg gtgccaccac caccgccaga cggcaccacg acattcctct gcctcatcct 300
cgctttcttc atccctcccc tcggcgtttt cctcaagtac aaatgtgaga ttgaattctg 360
gatctgcctc atcctaacat tcttggccta cgcgccgggc atcatctacg ccgtctgggt 420
gatcctg 427

<210> 4948
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E8
<400> 4948

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cttgctact tcgttgcaa cccaaaccca ggccatatca gacactgagc ataagcactt 180
 tgccatgtag atagagaaga gtgacagaag ctataaatag gtacacagga agcaaataagg 240
 tttgtgattg gatggcacta catgttcata ggagtggatt gcagagcatg tgttctacca 300
 ataatgagag cttatctttc atgatttttc ttttgtttgg gtttgcactg aattttgttt 360
 tgtgtgaagg tgtgcacagt gcagtttaac tgcactgggtg tagtcatgag tgaagaaagc 420
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<210> 4949
 <211> 428
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-F5
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 atatagccca accctgtcgg tgtgaccgag tggaacaact cgggtggcacc gagattcata 180
 actgcaagca gttactgaaa cttggtgtga ccgaaagggtt caaatcgggt gcaccaagat 240
 tgagaacctg gatcgactta gtgatctcgg tatgaocgaa ttggatgaat cggtcagacc 300
 gataagcaca aagaagtttt ggaagtttaa gtctatgacg aatcggagac tccgagtgtt 360
 cctcacacag agtggttcga atcttacttg atcaaatttt gtgatgtagc atgaatagag 420
 tttgagac 428

<210> 4950
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-F7
 <400> 4950

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 tatctttgggt gctgtccttg aggccgctgc ccaggcttat ggcaacgacg agagcatcga 180

ggtcattgctt gaagagcttg ccagtgaccc agagctcgtt gatgagtaca tgaagcttct 240
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cgtggccccg gagtcgggtcc ggtcgggtcaa gtgggcggta catttcaggc gcggcgtggt 360
tgacaatgtg gtgaaaacat atatacagaa ctcatgactt gtggatgtaa ttgtgtctcc 420
tgactgtgga tgggtattgt 439

<210> 4951
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-F8
<400> 4951

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gctctcatgc ttttgcttca taatttgcag atatgaagga agatgcgggc tccctaccaa 180
ttttgattcc agctattgct atgcattagg ctatgggtgt ggtgtctctt tccaatttgg 240
caagacagga cttatttctg cggtatgtc actatatttt tctacttgat agatgtttgg 300
cattgcttaa ccatcggagt catatttact ctgtttacct cctaacttct gaccagttct 360
ccatcatgcg aacattgtca tatgttctct tccagtttcc acgccatatt cattattgga 420
taaaacatta aatttcacaa aacaaaca 448

<210> 4952
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-G5
<400> 4952

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tggaccactt caggttcctc cactccaacc tgggtcctca gccaggacgc tcttagctat 180
ggttttctcc cagaatgtct cccctgtagc accaaacttg ctactgcagg ttgcagtga 240

gaataatcag caacctgtgt ggtatttcag tgacaaaggt tcgctccatg tcttctttgg 300
 tgaagatggc aaaatggagc gaacgggttt tctcgaggcc tggaaatctt tacctgatga 360
 caatgaattt tcagaagaat accccaattc tgtcatcagc agcatagatg ccaccgttga 420
 acaccttgca gcatcaaatg 440

<210> 4953
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-G7
 <400> 4953

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 acgttgtcgt tctcttgtca tgggtggagaa ggagggttgtt gatgttcacg ttggtgtact 180
 tcctcatttt cttcgtcttg gtgtgtccca cttgtggatg cttccgtatt aactcttggt 240
 tcaccttgct gtgaggtaga agcttccact tggacagacg aggtactctc cttcacctcc 300
 gttggacgaa ccttgccaat agacaagtct tggattgctt ctgaagggtc tttgtctcct 360
 acatcaattg gcaattgctc tatttgcgag cgttagatt cgtcaaactt cacatctact 420
 gtct 424

<210> 4954
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-005-Q1-E1-H5
 <400> 4954

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 atctcatatg ggccactatt aggcccgag catggcaggc cattaatgga ccggatcaaa 180
 tatgggtcgg catttgccc aaaacatggt agccagttaa tgggccggat tactagggtc 240

ctcaaaatct tgtgggccta cagctgggcc ggcccattaa tgtcggtgaa atctcgtggg 300
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 gccattatg gcacacaaaa atcttgtggg cctttacct 399

<210> 4955
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-H7
 <400> 4955

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 gtgggtgttcg tccgacgaag gcttttaggtg agcgcgcca agaggatgaga tgccaggatg 180
 ccgtgtgagg cggcgagcat ggcgagatgc cgatgggtgct gcgtgagaag cggcaagacg 240
 tatcagaggc tggagccgtg atggactgca tcaaattggg tcgggtgaac cggccgggtcg 300
 ttctgtttgt tggactagct gttcatgcgt gagttcgttt agtcctagcc gagagtatcg 360
 ttgctagtag ttgatgcatt catgtagttg gcctgggtcac aagtgggttac cgagtcgtgt 420
 gcaacgctgg ag 432

<210> 4956
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-A1
 <400> 4956

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 aagctgttga tgtcaacatg aacaaaatgc cagatgtcgc gatgactcta gccgttgttg 180
 ccctgtttgc cgatgggtcca accgctatca gagatgttgc ctctggaga gtgaaggaaa 240
 ctgaaagaat ggtcgcgatc cggaccgagc tgacgaagct gggagcaacg gtggaggaag 300
 gcccgacta ctgcatcatc acgccgccg agaagctgaa catcacggcg atcgacacct 360

acgatgacca ccggatggcg atggccttct ccctggcggc ctgtgctgag gtgccagttc 420
 acatcagga ccctggatgc aaccgaaag aaccttccc 459

<210> 4957
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-A10
 <400> 4957

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 gcaaaatttg tgtatgaagt agtgcaaaat ttgtgctatt tgttgaaaaa gggcggtcag 240
 ccgaccatgc cggcatatat gggtcggcgc gttgggcaca ctgccgacc aaatctcaaa 300
 tgggacggac gccgagcggg tgaccacca aacggataaa aaacggacaa aaacaccgtc 360
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<210> 4958
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4958

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 atgtttgacg aaagtttga cacacacccc tcacaaaccg gagcaactca ctagaaggct 180
 cgtggttccg aaagggaaca atgcatgttt gatgacgaac aggagatagg ttcctcttac 240
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 aaaattctaa gggtcatttg accttttaaa gacatttaag tgattttcaa gccatttaat 360
 gaccacaatt canatttgaa ctacatctac atgcaacgcc taaacataac ggtttgaaaa 420
 atcatattt 429

<210> 4959
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-A2

 <400> 4959

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aacgacaaac ttgttccagg ttcttccttc tttacaattc tacaatacat ctttaaaatc  120
agcatcatgc acatattgat ctttgatggc ctccaaacca aatattttga agtcaagttg  180
tgaaagcata gtatagcgac gagacaatgc atcagcaata acattttctt tacccttctt  240
gtgtttaatg acataaggga aagtttcaat gaattcaacc catttagcat gtctacgatt  300
cagtttagct tgacttttaa tatgtttcaa agattcatga tcagaatgta taacaaattc  360
tttgggccat aaataatggt gccatgtttc taaagtccga acaagagcat aaagttcttt  420
atcaaaagta gaataa                                     436
  
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<210> 4960
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 4960

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cgctaataaa ataatcttag atggatatca cctgatttgt tcggatgacc gatgatccat  120
tcaacgcaac agaaaacagc tcaggtagac cggcaaccca aaatagcccg gcggcttatac  180
atagcagtgg cggtcaatg cggccccggt gaattaatac agcagagggg ctcaatgttg  240
cgcatttttt aacttcgtcc gtttttttta aatctccaga cacgtatttt tgcaccatag  300
tttcgtgtag ctttctgatg tccatcttga gccggacaga taaatagtag taacaaagta  360
ttgccagtaa tggcagcgca cactgacgga gctgactgct gacgcgaccg cagtccagag  420
tggncacgt tt                                     432
  
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<210> 4961
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-A8

 <400> 4961

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 caccatcatg ttggtgccat ctactgtaag ctgtattggc agctcggata ttctaagggt 180
 gcctgaattt atgttttagta tgacaacaaa caatttccag tatgcatgcc taccatata 240
 atgttaatgg gctgtggggc gattaccggt aacatgcttg gtcttgtgcy acctgagaat 300
 ccctgcctca cacactogac gaatttagcc catgcatctg gtatctagat acaattactc 360
 ctacaaatat tgtttctata gttgtgatct aaatgct 397

<210> 4962
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-B10

 <400> 4962

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 gggatgcca tggcaccccc aagataatcc aaggacacca aaaagtcaaa gcttggggaa 180
 gccccggaag gcatccctc tttcgtctac ttccatcggg aatttacttg gagttgtatt 240
 tttattcact acatgtcatg tgttttgctt ggagcgtctt gtattattcg cgtctttgct 300
 tgttcgtttt ccacaatcat ccttgctgta cacacctttt tagagagcca tacatgattt 360
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<210> 4963
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B11

<400> 4963

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aggaccacca ggacgagatc tgcgaggtgg tgctgaccaa gagccccgac gcgtcgtgcg 180
ccgagatcga ggagttccgc gaccgcgcgc gcgtcccgt caccagcaac aacggcatga 240
agcagcaggg caccgccttc gccaacccca tcgccttctt cccaaggag ccgcgcaagg 300
agtgcggcgg catcctccag gttacgacc tcaaggacgc acccgagaac ccatgaaccc 360
ccatcccatc catatagtct cgctcagttg cttcccatca tca 403

<210> 4964

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B12

<400> 4964

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ggtgacggcc tcacgactt cagcgagttc atctccttct gcaacgcca cccggggctc 120
atgaaggacg tcgccaagggt cttctgaatc agttcatttc acctcagccg tccgttccag 180
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ccgatccagc ctcagcttca cctgaggccg gccctaaatt tgtttgatca attcttttgc 300
tactagtagt aactagtgat gatcactggt gcacatttca tttatttatt ttatatatca 360
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<210> 4965

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C3

<400> 4965

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ctgccattgg aaaaatttgt aactttttga atgtttctag tatttgtttt gatttgtttt 180
ttatttaaca cgggtgcaga tgagctcggg ctcacaaaag catttctcaa agtctgggtct 240
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gaa 423

<210> 4966
<211> 404
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 4966

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ttgacctcgg caagaacgac gtggtgaacg acatctcaac ctat 404

<210> 4967
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-C7
<400> 4967

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 aaaagaaaaa aaaagagaaa aaaaaaaaaa agaaaaaaaa tataaaagaa aaaaacacca 360
 aaagaaaaaa atttaaccac ggtaaaaaaa aactcgtttt aagaaaaaaa aaagggggggc 420
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<210> 4968

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C8

<400> 4968

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<210> 4969

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C9

<400> 4969

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 taagtttgtg tccctgagcg gctagcgttc cttggcctct caaactgagg ttgcgaaacc 180
 tttttcttga gtcaatttat atactgtata agaaagggtg acaagtcagg catctaatat 240
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agcattttcta ttagttacat ctgcaaagcc aagcaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
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<210> 4970
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D10
 <400> 4970

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 caaggggggct cctaaggtcg gtcgaggctc tgataccaaa ttttcacgcc caagatgtga 180
 ccctatccta aaggaactcg aagggtccac caaggataga agcgcatctt gaagacgctt 240
 ttgcaagatg gatatcatta catcaacact acataataga tggggatata taaaaaggc 300
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<210> 4971
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D11
 <400> 4971

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 tcacgaacgg ccagaccaac ctcagggaca agatgatgga cactggaag atgcacagga 180
 ggaatgagaa gatgctggag gaggagcaca agctgctggc tctgaggatg caccagcagg 240
 acgacctgag cagcggcatg agggagatgg agctcgggta ccatcagggt agggatttca 300
 cttcccagat gccgttcacc ttccggtgc agcccagcca cccaacttg caggaagaca 360

agtaggccac cgaatcctgc cacggcctgt gtcaactgaa gtcctcttac ctgc 414

<210> 4972
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D3
 <400> 4972

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 ggatgaggag cagggtcatcg aagggtcgga cagcagcgtg ctcaccatga agaaaggaga 180
 ggtcgcgtca gctagaatac cacctgaaca tgcgttcgga tccaccgaga cgaagcttga 240
 tcttgctgtg gtctctccca actccaccgt cttctatgaa gtggagattg tttccttcga 300
 caaggagaaa gaatcttggg acttgaagag taatgctgag aagatcgaag cagctgctaa 360
 aaagaaagat gaaggaaatg cgtggtttta gatgggcaag tacgccaagg cttccaagag 420
 atatga 426

<210> 4973
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D4
 <400> 4973

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 tttttattcg ccacatgtta tgtgttttgc ttggagcatc gtgtattata ttagtctttg 120
 ctttttagtt taccacaatc atccttggtg tacacacctt ttgggagaag actacttgat 180
 tataatttgc tagaatactc tatgtgcttc actcatatct tttgagcgtg atagtttttg 240
 ttctagtgtc tcaattatat ctttttagagc acggcgggtg cttaattttg aagaaattgc 300
 tagtctctca tgcttcactt atatcttttt gagagtcttt tagaacagca tggatatttc 360
 tatgggttaca aatttgggtcc tagaatgatg agcatccaag ttgggtataa taaaaactat 420
 cat 423

<210> 4974
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-D5

 <400> 4974

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 gtggctcgga catttcacg aacacctcat gtgcatagga ggtgagatag agcacccaaa 180
 tgcctctcc tcgccggcca aaaaaaacag agcactgtgg agtgctctgc cgcggtgatg 240
 ggtatatata ggcaatttat ttgtcccggg tcatgccacg aaccgggact aaagctcccc 300
 cttctacacc ggttcaaggc atgaaccggg accaatggct gtgggccagg agcgaggacc 360
 attggctccg gttcgtgcct agaaccggga caaatgggtc cagacaaaacc gggaccaatg 420
 ctcacgaggc cccggccggg cccctgggct cat 453

<210> 4975
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-D8

 <400> 4975

gggtcgacgg gagcctctac ggtaccgtgc attgcccttt ctcaccttga gagttgggtgc 60
 aaacttcgcc ggtgcatcca aaccccatga tatgatacgc tctatcacac ataaacctcc 120
 ttatatcttc cttaaaacag ccaccatacc taccaattat ggcatattcca tagccattcc 180
 gagatatatt gccatggaac tttccaccgt tccgttcac atgacatgtt tcatcattgt 240
 catattgggt ttgcatgac atgtagttga catcgtatgt gtggcaaagc caccttcata 300
 atttttcata catgtcgctc ttgattcatt gcatactcgc gtacaccgcc ataggcattc 360
 atatagagtc atattttgtt ctagtatcga gttgtaattc atgaattgta aataaaataa 420
 agtgtgatga aca 433

<210> 4976
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-E10

<400> 4976

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 aaaatgaacg tatcaactcc cccaagctta gacctcgctt gtccgcaaac aaaaaccgaa 120
 atcgaaaaac atgtccacat gcttagagag agagagggtgt cgataaaaaac aaaatacggg 180
 catagaagca tgatgtttat tattatagca gcaacaaact taaacaaaat acatatcttt 240
 gtcataaata acagtaagtg attacatacg gagcaaaata agtgaatcta cactctaaaa 300
 tgtctaaaaa caagtgagtc tacatatatc cgtatgttac agttcatttg aaatgtctaa 360
 aatgacttat atttaaaaac gaaggaggta gatggggttg ctatgacaat actaatgtga 420
 ccggaagtcc tgag 434

<210> 4977
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-006-Q1-E1-E12

<400> 4977

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 tgaatcttac attctttaca gactatactg ttttggcaga ttgctgttat gtttgcattg 120
 tttgcatatg tttgcttggt taatgattct atttgaggat angagtgtta aatatgcaga 180
 tacatttagt attcaatggt gaacaataat ttatgtgatt ttttacaata taaaatgata 240
 agtttttgca ttggtttata ctaacctatc tcacgagttt ttgttgagtt tgggtgtggat 300
 gaagcttttg ataaaaagag aaaccatgat atgagaggaa ttaatgagac acaaaagtgc 360
 aagcttgggg atgccaagg cacccaaaga 390

<210> 4978
 <211> 212
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-E6

<400> 4978

taccagtcca gaattcccgg gtcgacgggg taaggaattg taaatatcca ttgttgtagc 60
gcgacctgaa taaaataaac gatctaagtc tctagtccaa aaaaagtcaa aagcatgtaa 120
aaaaaaaaatc ggccgctcga taggatctac gcttacatag tcgtgcatgc gacatcatac 180
ctcttctgta atgtcagcta aattcaattc ag 212

<210> 4979

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F10

<400> 4979

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ggataggact attaaatatg cagaggcatt tagtatgaaa tgttgaataa taatttttagt 120
gattttctac agtagagtat gataaggttt ttgcaatggt ttatactaac tcatctcacg 180
agtccttggt gagttttgtg tggatgaagc ttttgagatt tagggagacc gtgatatgag 240
aggaattaag gagacacaaa atctcaatct tggggatgcc caaggcatcc caagataata 300
tttcaagaag tctctagctt ctaagcttgg ggatgccccg gctggcatcc cacctttctt 360
cttcaataaa ctatcggtta atattggttg atcctaagtt tttg 404

<210> 4980

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F11

<400> 4980

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aagaagatga ccaacgagaa gtacctggcg gggcggttcc gctacttcga caaggacggc 120
agcggcttca tcgagatcga cgagctccgg caggagctgg ggccaacga gcaggccatc 180

ctcgagatca tccgcgacgt cgacaccgac cgggacggac gcatcagcta ccaggagttc 240
gagctgatga tgaagtccgg ggcggactgg aggacccgcc agttctcgcg ggccaacttc 300
agcacctca gccggaaact atgcaaagaa gaaacttcct cctcgtgaat tcaatttggt 360
ctactgctag atgtgattct ttttgtgcat gtaagctgc 399

<210> 4981
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F12
<400> 4981

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tgatgaaaag aaacccgata tcacgaaacg accacacact cctattggag atgatgtgga 120
atgcaagaag ccaaagatag cagaaggctc aagggtgcaa ggagaagaac ctgaggctgg 180
agggataaag aattcctcct gggctctgatg acaggggaat gcagtaaaca ccagaagcat 240
caaaactatg atctggtaca gtatcctgaa tacactatct tctggattat gaatgaattc 300
tgaagcatgg ggctataagt gaattatgta acatggattt gtaactatgg tggatgtaa 360
gttaatgttc tatcacgtac atgccgccgc agcactacta cgttccgaac 410

<210> 4982
<211> 435
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F4
<400> 4982

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cgctggagtg ggccgtccgg aacctgctcc gccggggcga caccgtcgtc gtcctccacg 120
tccagcgcca cggcggggag gaggccaagc acgccgtttg ggccaagtcc ggatccccac 180
tcatccctct gtccgagtac cgggagccgg aggtgatgaa gaactacggc gtgacctgcg 240
acgccgaggt gctcgacatg ctcgacaccg ccgcgcgcca gctcgagctg aagggtggtg 300
cgaaggtgta ctggggcgac gccagggaga agctctgcga cgcggtggag gagcagaaga 360

tcgacacccat cgtcatgggc agccgcggcc tcggtacccat ccagaggatt cttctgggaa 420
gtgtgaccaa ctacg 435

<210> 4983
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F6

<400> 4983

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ctgcgctgtg tttgggattt gaaataaaac gatgggagat gtgccacgct cttaaagtcc 180
agtcttctgc tctaattctg ctaaattact tgttgcattt tgcagcttgt ctacctttac 240
agtgactacc ttcttttggc tgtgctcatt tggcaaaaca gtttgtctaa ttcacatcta 300
cttcgtgtct ttttagacat ttcaaataga caacaacata cggatgtatg tagacatatt 360
ttatagtgtg gatccattca ttttgcctcg tatgttgtca cttgttggaa tctctagaaa 420
gac 423

<210> 4984
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F7

<400> 4984

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caggctctgc gcgtccattg tgcggagctg cctcaaggag ccctacaagt ccgaggccgc 120
cgaagtcgag aaggctccact actcccgctc caagtggacc gacggaaagc agcccaagcc 180
caccatctgc gaagatgata aatgaaagat ccggtgccat ggtgacagag tccttctctac 240
ggacgttttc aaaagctact gtgtttcgtg ctggccattc tacctaaaac tcgttatctg 300
ttagatttat gtttcacgct caagaataaa ttattttacgt gacattggat ctgttccgac 360
accattttat ttttaactttt aatcgctac 389

<210> 4985
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-F8

 <400> 4985

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 ctcccttgct ctgcgttttc gttgtggtga agatggcgat atcgatggag cgcaggaaga 120
 tgaagcccggt ccttgctctc gtgctgctgc tgtcgtgcca tcttcttctt ccgctggctc 180
 cctccgtgcc tgtgtcgagt aagtgtttga cctccaaccc catgcacgca tgcattggacc 240
 ttacttaata tcagttcatc ttctttcttg gcatgtgtat gtgcatgcat gcatcttaat 300
 tttgagcctt gctctcgat gtaggaagcg tggccttggg aaatcatcta gcctcagctt 360
 ctagtctaac tctggaggcg gcgcctgttc aggtcaatct ctcactctac ctgatgcc 418

<210> 4986
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-F9

 <400> 4986

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 ggccaaggaa gtataagcct gatgggtcag tgacgttggg gctctcgcca tctccatcca 180
 cgctcattc gtcgagccca ggaatgggag cgatgggtac cacacctggc tcaggatttg 240
 ggccggggac agggtcaggg ggttctggtt caggcgact gacggagaaa cgtggcagag 300
 ggcgccacc tgggtccggg aagatgcagc agctggcttc gcttgaaaaa tggtttcttg 360
 gctctgttg aacagggttt actcctcacg tgatta 396

<210> 4987
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-G11

<400> 4987

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taactgcgga ggtgaatgca ctaaagcaga gcctcgaacg gtccgagaat gagctcggcc 120
ttgccaagaa gtagctcgag gataaggaag gtaagtaata cttatgaaa gtagtacctt 180
atagaaaagg atttggttgc aaaaaatgac aagaataacg tgggtattgc agggggccacg 240
aatgaggtgg cgaccctgaa ggaggcgggtg tccaaggctg aaagcagtgc ggccttgagg 300
cgaccgagc gagagaagca agaggcgcgg gtggcggagg tgcggcaaga gctccaggct 360
ctcgtggaaa aacatgagag tttggagggt gactcgaggg cccgagagtc cg 412

<210> 4988

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-G3

<400> 4988

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tcgatcatcg gtatctcaat acctagttca atctcattac cggcaagtct ctttactcgt 120
tccgtaatgc atcatccgc aactaactca ttagtcacat tgcattgcaag gcttatagt 180
atgtacatta ccgagagggc ccagagatac ctattcgaca atcggagtga caaatcctaa 240
tctcgatcta tgccaactca acaaacacca tcggagacac ctgtagagca cctttataat 300
caccagtta cgttgtgacg tttggtagca cacaagtgt tcctccggtg ttcgggagtt 360
gcataatctc atagttatag gaacatgtat aagtcatgaa gaaagcaata gcaacatact 420
aaacgatcaa gtgctaagct aacag 445

<210> 4989

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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<400> 4989

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acgcttactg cgaccgtcag tctgtggatc tcaactccat tgctttcctt tttgatggtc 180
gtaggctccg tggtagcag acccctgatg agcttgagat ggaggaaggc gacgagatcg 240
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cctggctgtt ctatgtcgta tgctacctt agaactagag taaaatgtaa gaagtgaag 360
aacttgtgag gctatggttc tgtgcatag cctgangggg ggtctggagg tgaaacaaca 420
t 421

<210> 4990
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-G8
<400> 4990

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gtgcagctta caaatgggtga aatggccgga gcgatgatgt ggagatcttt gtaaagaaga 120
caagacaatg gaatagtaag aaatacaaaa tagggctact ggtgaaatac atgagctgag 180
aagccgcaaa atagcgcttt gctggttaac cgggttaaaa tatgttccca ttgcctgtgg 240
gatggggctg aatgcggaga ctggttgtag ttcataggga gtagtgtaag tttcactggt 300
agcacctagc tagctgagat ttcacaatta ctaatattga tttttgaaca tgttgactgg 360
attatattga tttcgtatct tgctaagagc ctaagatgct aaggggcaac cttttgatgg 420
tc 422

<210> 4991
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-G9
<400> 4991

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ccacgctcaa gcgcaactgg aagcgctccg ccatcatcaa catcgtcttc ctcgctttca 120
tcgtcatcgt ctactccgtc ggctgctgcg ccttcaggaa caaccgccgc gaccaccgca 180
acggcggcgg gtacaagcag cagggcgcggt acgcttgatc gcgcgcttgg ctcggttatt 240
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ttctcttagg atggcctgat ctagctttgt acaggcgaga tgtgctctga tcacctacta 360
gttaggtttt actccgtggt catgaggagg gatgtgtata tatatttt 408

<210> 4992
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-H11
<400> 4992

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ataaaagtgc gtaccgtgct tttatgttta cgagctaaag ttctagcgca tgaaagtcga 180
agtatatact ttagtcgata caaagtcctg tttttcgaag atccactatg ataataaaaa 240
agatttctac atatccgacc aaatcgatca agaataatccc aatctgataa atctgtccaa 300
atgggtttac taataggatg ccccgatcca gtacaaaatt gagcttttga taagtatcct 360
atgaggagag tagcggggac tatggtatcg aatttttttc attcgagtat ctattagaaa 420
tg 422

<210> 4993
<211> 452
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-H7
<400> 4993

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ataactcctg gcaaagtcgc ttcccaggca gtgtaccata ttccacggcc atttttgaaa 180

tccaagaaca acctattggt tgtatttgag gaggagcttg gcaagccgga aggcatactc 240
 atccagacag tgaggagaga tgacatctgc gtgtttatct cggagcacia ccctgcgcag 300
 ataaagccat gggacgagca tggaggccag atcaagctca tagccgaaga ccacaacact 360
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 ggcaaccggt tggggtcatt cgccaacttc ac 452

<210> 4994
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H8
 <400> 4994

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 acgacatatt acatctcaag gggaacaata caaggaggcc acatcagttc atcgagtcta 180
 tcgacgaatg ataaaggata cagtttcaag cgaatatgag ggtgtaacaa actgatgtat 240
 cttggggggca ttctttgcct gagactgttt ctgttgaggc aaagtgtttg taccataatg 300
 atctagatta tctatgtgga cctatatatt attgtcagca caacatggaa tgaatttgaa 360
 tgtcaagtac aaaccacggt attcgggcat gaccgatcta aaaaaaaaaa taa 413

<210> 4995
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H9
 <400> 4995

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 cctgggagacc ggccgcaacg tggagatgcc tggccagggc accaacgcgg agcagctcgc 120
 caggttcgca aagcagctct ccgacgagcg ccgccgccgc aaaaaggcgc ttcagggttaa 180
 ctagcagctg gccgccggt cgctcgactg tggtgaatct tgctcgtttg gtggatgttt 240
 tccattcagt tctttttctt ggtacagcga tgtacagtaa tattgtacag ttatgtgaga 300

gtattgtgcc acggttgga aataactaa ggggtgtacct gttttgctgg agcgagtgtt 360
gatcaagatc g 371

<210> 4996
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A1

<400> 4996

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agccacggca caagaagcac gacgatgatg acgacgacga tggcgagagg aagccgcggg 180
acaagaaacg tgacgacgac gatgatgatg aggatgacag gaagccgcgt tacaagaagc 240
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acgacgacga tgagaggaag cagcgtcgcg ggaacaaccg ccgccgccat gattacgatg 360
actgatcaag gcatcctgac atgagtttag ctgacgctaa ataag 405

<210> 4997
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A7

<400> 4997

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ctgatgttag aagttgattc cttgtgtgag ggtgcggatg taacacaaca tgtaattctt 180
aatatccaca tgcctcacca aaacaatgta cggctaacc acaattatga cgttatcaag 240
ctcattataa atatgcatgt aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagcggcc 360
gccccaaagg ttcaaaccctt acttaccctt gaatgcaact tcaaaccctt tcaaagtgt 420
caccaaaatt caattcaagg gccg 444

<210> 4998
 <211> 233
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B6

<400> 4998

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 tcgttacgcc cgctcataat tcctttttcg acgctctgga gaataataac tactggtata 180
 tcattctata tcaaagccgg cttgtgaaat aaatgatccg ccgtcttgcc ttc 233

<210> 4999
 <211> 464
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B8

<400> 4999

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 agagaacttg gattacagta ggtttaaaac caaaataaat aaataatgag ttcattgcag 180
 taccttatgt ggtggttttg ttttctttca ctaacggagc ttataagatt tcctgttgag 240
 ttttgtgttg tgaagttttc aagttttggg taaagctttt atggactatg gaataaaggg 300
 tggcaagagc ctaagcttgg ggatgcccac ggtaccccaa gatattcaag aatagccaaa 360
 atcctaagct tgggggatgc cccgggaagg catccctctt ttgctctcg ttcattggta 420
 actttatttg gagctatatt tttattcgcc acatgatatg tggt 464

<210> 5000
 <211> 469
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-C2

<400> 5000

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gccaccaacc gggaccaaag ggtctcctga ctgggctctg cacactgccc acgtggatgg 120
gctttagtcc cggttctgga ttgaaccggg actaaagggt ggaggtatta gtaccgacac 180
tttagtcccg gttcaggaac cgggactaaa ggcccttacg aatcgggact ataggccctt 240
tttctaccag tgcagccaca catgacggcc accgtcgaga gataaagcat gatttgctaa 300
gttgtgagct tcaaaattca agctcctaaa ttcattggcta gatttacaga aatcaaaagt 360
ggcatattat ttcattgatg gtagctccat aaacagatga gttttccttc ttcaagtcta 420
ccancaccac tttgcaatcc gaaggcaact tggaaatcac acacataaa 469

<210> 5001

<211> 416

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-007-Q1-E1-C5

<400> 5001

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aggacaagaa gcacggcgag ggccacaagg acgacgacgg ccacggcagc agcagcagcg 120
acagcgacag cgactgagcc agctccggcc gcgctccggc agcagcgtgc agtgtaggag 180
agatcgatga acgcttgagg gaagtgtggc atacatatat gttgcagggt ttggagcgtg 240
tggtagcata tgtatgtaat gcgtgacatg tctcatggat cttgtgatgt ataataatta 300
gccggctgca ctgactgca cggtgcttgt aataataacg ttaatgaatc atgttggtat 360
tgatgcaaaa naaaaaaaaa aaatcaaaaa atagcaacat taaaaaaaaatg ttaacg 416

<210> 5002

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C6

<400> 5002

taccgatcca gaattcgagg gtcgacggga gcatccccgg gatggagcct gtcaagggtg 60

acgcggcgcg gcccatcgcc gtggcgcccc ggtccatcgt gttcgtccac atg'ccggatt 120
accatgcccc tgcgtgtgct tagttagggc tttttgggtg tcttgttggt ataggtagtg 180
gtgataaaag ggtggccttgc taagcatgtc catcctagct agggtagtta taagatggct 240
gaagagagtg tgtggcctttg tgtgattaga tgtaataagt ttggagggaa aattgaatta 300
gtgaaacaag aggcaatggg aataaactct ttccctggttt cttctg 346

<210> 5003
<211> 456
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-C7

<400> 5003

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aggtaggtat ggtggatttt ttgaggaagg tatatgggtg gtgtagtgca ccggcgaaag 120
ttgtgtggta ctagagaggc tagtagttgt ggaaggggtga gagtgcgat aatccgtgga 180
ctcaacatta gtcataaaga actcacatac ttgttgcaaa aaattattag ctatcgaaac 240
aaagtactac acgcatgctc ctaggggggt agattggtag gaaaagacca tcgctcgtcc 300
ccgaccgcca ttcataagga agacaatcaa agaataaatc atgctccgaa tcattgggac 360
accttctaga taaagttgac tcatctccag tcncatcttt atcaagattt atattagaaa 420
caaagattca ataggagtca caccaatcac ttttaag 456

<210> 5004
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-D1

<400> 5004

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atcactatat gacaccacac aacagatatg ctgctgtcag cagtgtcttc taaatagaca 120
ctgcaattat cttatacatc attactgttg tcagcaatgc tctctaaata gacactgcaa 180

ttatcatgta catcattgct gctgcaataa accactaaga attattcaat atctagccta 240
 ggccttcgt tatcatcaac cgagggttga ggcggagtta caaaatctga atgagaaacc 300
 aagggtattgt ccaagtcagc gacatctttg ttatcttcag agctgttaga agcagctgag 360
 atggcgtcac ccgattctga atgtgttctg tccacatatg cttcgggttaa ggagctctc 419

<210> 5005
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-D5
 <400> 5005

gtaccgatca agaattcccg ggtcgacggg gaaaacggcc agcccatgga tgaggagtat 60
 gaggagcagg ttccagatta ctcgagagcc tattctgggtg ggttgagacc ccatgcccat 120
 gtcatgttgg atgatgagac cgaggatgat gatgaagacg ctgaagggga cggagagggc 180
 gacgaggaag aatacgacgt gaacctatgct tcggctgatg ttgatgatga gatggacgag 240
 gatgatgatg atataggtaa tgatggggat gatgggtgggtg atggagttga ggtgaatgca 300
 gatgaagatg aaggcgcgac ctcatactcg tcagagtaca gtgaataaga gcttgtctca 360
 tgtgaccatt tacgcacgta gtgatactgg tggacaataa taagcctttt ggcctttttt 420
 tgggggcaaa gtgggctaga cgtggaacgg gga 453

<210> 5006
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-D8
 <400> 5006

aattcgcggg tcgacgggca cgatcacgga ttcgctcggc agatcagcgc gcaccagccc 60
 ccaagcctcc ggatcctcct tcgtcgtcct cccaccgca agcttcagcc atggcaggaa 120
 tggcaccaga gggttcccag tttgatgcta agcagtatga cagcaagatg accgagttac 180
 tgaaccaagg tgacaccggg gagtttttca cctcgtatga tgagggtgcac gaaagttttg 240
 atgacatggg cctccaatag aaccttctta gaggcaccta cgcttatggg tttgagaagc 300

catcagccat tcagcaaaga ggaattgttc cttctgcaa gggctctgat gtgattcagc 360
aagctcagtc tggaacagga aaaactgcc a cttctgttc tg 402

<210> 5007
<211> 102
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-E12
<400> 5007

agtcgtatta gtcctaaaaa aggggcggcc ctaaaggatc aagccttact tacccttgca 60
ggcaagttca taccctcct aaattgtcac caaaattcaa tt 102

<210> 5008
<211> 454
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-E5
<400> 5008

gtaccgatca aaaattcccg ggtcgacggg cggcgacagt gccggccacg gtggcgagct 60
gggcgctctg aagcggtcgt cgtcgtaaa tgccgacagg ggcagagaat ccacgatgaa 120
cgctgctagc accacgggtg gtggttgcaa gctggagctt gcggcggagg aggtggacgg 180
cgtcgcgcc cgctgcatcc cggccgggag gaaaccagc ggcagcagca gcaagaagtc 240
tccgaccacc cagtcacag ttagcagccg gcgcggcgac caaccgaaa ctaccgacga 300
cggacggact gactgatttc acccaagaaa actcatgaaa acatactagt actagcatca 360
aaatgttgat cgacgtgctt ccgctgcaga ctgaacgaat gtcttgctac ggcacgcgct 420
cttgcatcga ctaactttcc tttttaaaat ttcc 454

<210> 5009
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-E7
<400> 5009

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ctccgtgacc agcacggtat cccctcgtg aagagcggtta cgggaagcaa gatcctccgc 120
atcctcaagg ctcattggcct ggctccgga atcccagagg atctgtactt tttgattaag 180
aaggctgtcg ccattaggaa gcatcttgag aggaacagga aggacaaaga ctccaaattc 240
aggctcattc ttgttgagag caggatccag cgtcttgccc gttactacaa gcgcaccaag 300
aagctcccg ccacctggaa gtacgagtct accactgcca gcactctggt ggcttatgat 360
ggctcttcat ctggtgtgct cttaccggct tcatgatggt cttggt 406

<210> 5010
<211> 456
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-E8
<400> 5010

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tacatcaaga tcgtgccata gaggggaacac gagagagaa acgagagaga gagagagaga 120
gatcaaacac atagetactg gtacataccc tcagcctcga ggggtgaacta ctccctcctc 180
gtcatggaga gcgcgggat gatgaagatg gccaccggtg atggttcccc cctccggcag 240
gggtgcggga agggctcccg agagggtttt ggtggctaca gaggcttgcg gcggcggaac 300
ttccgatcta ggtaattcc cgaaagtttc agtatttata ggaattattg gcgttggttt 360
cacgtcaggg ggggtctcccg gccgtccacg agatangggg gcgcgccctt ctaactcgtg 420
ggcatcccg acctcttctg gcccaactcc gatgct 456

<210> 5011
<211> 407
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-F7
<400> 5011

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gccttggggac atcctccac ctccttggcc gccaccctt gtcctatat aagtagatcc 120
atctagtagc ttttctggg gatttgttta gttaaaagtt agccaacgca acttcgtgta 180
cttcgtttgt gtccaacgac cagaccaaga ccgctttcgg atccccacct ttatcaatac 240
ttcatacata ttgcaatat tcagattgct tttatcatat tcttgctcgt tcttcgattg 300
cttgcaggaa tagaccttcg tggtcagggt gatcgtgcna cggcgtggtc aataacctct 360
ggagattggt ttagcgattg ctaaggcgca acgtcgtgca cgtttgt 407

<210> 5012
<211> 400
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G5
<400> 5012

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atggttagcag acgctcatgg aggagtgcgc aaaagactgc ggatcagaaa ccctcagagc 120
cagtcaatac tcggcctcgc cgtactccga gcagaagtca ttatcacgca gcatcccggc 180
ggactatacg gctgagctgt ctgatgccat caagctgcac atcggggtgt aatcacagat 240
agcatatgca tctatatgat gctataagca attgacgata tagagtaa at agtatatgca 300
tgttgctgaa atgtggcgcg gatattagat atgactagcg tgcattgcgg agtttgtaaa 360
aaatgcatct tgatgttccg tgcagggcac tcgaaacgat 400

<210> 5013
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G7
<400> 5013

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taccaaagga gggcggggca ccaatacgac ggctacgact agtctcacat ttgctctgct 120
ggcgaatggt cgcattccat ttgggtgctct tgatctgggt cggcctggcc atatttttgt 180
cacaacaaag cgcgattacc tggagaactt gcgttttgct tagctgctat tgagcatgac 240

tcgtttctga tgggactctt tttagtgttt ttgctacatg atcgtgtcgc ctatctggta 300
ctatgaacta aacatgggaa aagaatggat cagtgttagt tgatccttgg tcaaaaaaaaa 360
aaaaaagaaa aaaaaaaaaag aaaaggggaa ggaggagag 399

<210> 5014
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-H5
<400> 5014

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gcccttttag tcccgggttg tccaacgaac cgggaccaa gagcggcatt ggtaccggtt 120
ggttccgtgt aactactttt ttatcttctg cagctatttt ttgttgatt cttcctgcag 180
ctgttttttt agtcccacct cgccaagcga gaggcagtcg cagttgttta taagccctga 240
gtgcagagat gatgacgaag aggctcaatg ctctgcata ttggttagct tcaagccttg 300
aggaatacgg tagactgcac agagctatgt gcagtgcagt tgacactatt ccgaaaggct 360
tgaagcaaata ttaacgagca ttgcgcccct tttttatttt taatgac 407

<210> 5015
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-H6
<400> 5015

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gccacatgat atgtgtcttg cttggagcat cgtgtgttat attagtcttt gcttttttagt 120
ttatcacaat catccttgct gtacacacct tttgggagaa gcctacttga ttagaatttg 180
ctagaatatg ctttgtgctt cacttatatc ttttgagctt gatagtcttt gctctagtac 240
ttcatttata tcttttagag cacggagctg acttatcttt gtagaaattg ctagtctctc 300
atgcttcact tatattagtt tgagagctct ttagaacaac atggtatttg ctatgggtac 360
aaaattggtc ctagaatggt aggcaccaa gttgggtaca attaaaacta tca 413

<210> 5016
 <211> 269
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H9

<400> 5016

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 ttaaatttgt atcgacgagc gtacaaataa tggaacatat caaagatttt ttgtttaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 180
 aaaagataaa aacattacct acacatgcat acgacgtcat acctcttcaa taatgtcaag 240
 taaattcaat tcaatggccg taattaaat 269

<210> 5017
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-A1

<400> 5017

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 ttggaacaca aagaattatg tattgctatg ccatgggttaa ttgtaggggtt attgtttggc 120
 attcatgtta agtttagttg aaactgtatc atcatgggtt cagtttaaaa gtagaaactg 180
 tctatcaact gacatgcttt tgttgactgc tatggagtaa ttttgatagc aacaaggctg 240
 ctaattgatt tggtccttgg tatagcttgt ttattccgag atgatgttaa tttctaagtt 300
 taatctgttg aattagcatg gttatgctac ctttcaagtt gtaattcaac ggatat 356

<210> 5018
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A10

<400> 5018

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ggaagaagcg atcgacaggc gctcgctcgc gaggatgac taccgcaact ggtcgctgct 120
ctcctccatg gtcgtcatct ggggcagcgt cagcgccgcc ggctcgccg ggatcttcct 180
cttcggcggc aaggagaaat tccagggcta tttttctcgc gaaggcgaga ggctaatagca 240
gcaggacaga gccatgatgg gcaagaacta gtgcacagca cggctcactt tcgacgtgtc 300
aacatgtgaa tcagacatga aacgacgtat ctctgtggtt tagaacataa ctttctcttc 360
ctgccaatgg caccttttgc ttctgggccc c 391

<210> 5019
<211> 379
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-A12
<400> 5019

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ggcacgcagc aacgaggcgg tcgaggaggc gcggatcaag ctgctggagc tgcggcaggt 120
gaacaaggtg aaggcgctcg tcggcgccct cgagaccgtc atggacgaca accaaagccc 180
caccgcgcc cgcaagccgc ggctcaacct cggcgccctga actacgagta cattcgatga 240
gcatgaagct cgatcgcggt cgctcctcc tttatccccg ctactcttta atcaccatc 300
aaccgaattt gtcgtcgctg cacacttatc tataattacg gtatcgctta tattctgcaa 360
ggaggaagat gatggaagg 379

<210> 5020
<211> 336
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-A4
<400> 5020

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gtggatcttc tacgcgctgg tcaagaccaa ctccagcccg ctgctgacca tcaacgcctt 120
cggctgcgtc gtcgagtcct tctacatcct gctccacgtg gtgtacgcgc ccaggaacgc 180
caggcaccgc gccctcgctt tcttctcctt cctcgacgtc gccgccttct ccctcatcgt 240

cgctgctcacc gtcttctctcg tgccccagcc cagccgcgtc aaggtcctcg gcagcgtcgg 300
cctcgcttc tccatgggcg gtcctccgtc gcccc 336

<210> 5021
<211> 295
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-A6

<400> 5021

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gtgctggtgg tagcggcggc ggtggtggtg gctgcggtgg tcgcgttcca ccggaggcca 120
accgcagaac tcgtgtcgcc ccttaccgc agccttcgcg aaggtgatgg acgcgccggt 180
gctcgtgacg tgcacgcacc gctgcgcttg tangagagag atcagagcat gaagagagca 240
accagcgtga aaaataaaca ttagcacatc agaattgttg ctcgatcccc ttgtt 295

<210> 5022
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B11

<400> 5022

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catcgttcct gaaggtcgat gattctcctt gtatgttctt gtatggatgc ttgctttcct 120
tctgtcttct gtttgcaatg ctttgctcgt cgtgaagacg aacagtacaa ataacgtgtt 180
aaaacgtgaa gatgaaatcg aatagagggc accggcgga attgatccac cgccggtggt 240
tgaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaattaaaaa aaaaaaaaaa ataaaaaaaaa aaaaagcggc cgctcaaaag gatccaagct 360
t 361

<210> 5023
<211> 391
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B12

<400> 5023

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aaatacttgt taaaaacgta gtcaatggag taatgagtac tcacattatt agcatggctg 120
aatgtgaatg atttaatttg cgctgagcag tttccatgat taactctggt caaaagctgc 180
ttgttgaccg cagctccttg ctgtaacctg acaggcatgt gcacacattt tgatgattct 240
ttctccccctt tgcaagcaat ttatatgttt atttaatccg tagttactag tgcaacctgt 300
aaccatcaat gtacctaccg attcctttca cgttaatggg gacagtttaa ttttcctgta 360
atgccttgct ttgttagtaa cgtctgaaca a 391

<210> 5024

<211> 278

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-008-Q1-E1-B8

<400> 5024

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ctatagatcc atcagctcta agtaaactgc gtataaatca tgtatgtata aggtatgtgt 120
tactgatgtt agaagttgat tccttgtgtg atggtgcgga tgtaacacaa catgtaattc 180
ttaatatcca catgcctcac caaaacaatg tacggctaac ccacaattat gacgttatca 240
agctcattat aaatatacat gnttcacttg actactat 278

<210> 5025

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-C10

<400> 5025

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gctggtggag gctctacggt taatatgttt tgcaaaaatc caattttttc ctacaacaaa 120

ggaatgtaat tttatttaac tatcatggta gttgaacaac attgagaaag ttcctccaac 180
tcaatcccaa ttaaaagtaa ttatcaaccc aacaaattaa atttagagtc atgagttcca 240
tatgataatc caagaaccaa atactcaaaa tgtccataac cggggacacg actaaccatg 300
attagattgt acactctgca aaggtttgcg cacttttccc cacaagactc gatgtcctcc 360
gttggatttc tcgcactaca tgatgtttg 389

<210> 5026
<211> 332
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-C5

<400> 5026

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aaaatgcagc aaggatatttt tgtatttttg gtttaataga tctgaataaa aatgcaaagg 120
agaagtagat cgcaaagcaa atatatgaga aagaagaccc gggggccgta tgtttcacta 180
gtggcttctc tcgagaaaaa tagcaaacag tgggtagaca aattactgtt gggaaataga 240
tagaacttca aataatcatg acgatatcca ggcaatgac attacatagg catcacgtcc 300
aagattagta gaccgattcc tgcctgcata ta 332

<210> 5027
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-C6

<400> 5027

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agagtggcgc tgatggtgaa ggtaccacca gtgccaccct ccttggcgga caccttcttg 120
gtctcaggtg gagctgccat tgccttctta cgcttgccgg tggagctcga tggtgcgctc 180
tcgacggtag cgcagcactc caaagagggt ctcttgccgg agtgggcatc agagctcttg 240
ccggacttgg tcttcttctt cccccgggga gt 272

<210> 5028
 <211> 354
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-C7

<400> 5028

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 gggtccccca accgactttg acgcactcat ctgcggtagt ggccagtgagg tgtactaccc 120
 gggctcggca cagtgtttgg atgcccacgg gaagctccag cctgaccagg actacctgca 180
 gcacatcaac caccggtggt ctacacgacgg cgccaggcag accatangga agctcatggc 240
 ctacacaggac gggtccggca atgtcgtcga gctgacgtg gagtccctgca atgctgattg 300
 cgtctccttc ttcgtcaagg accctaagaa ggtccaaact atcaataaaa tccg 354

<210> 5029
 <211> 351
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-C8

<400> 5029

 tcaggaattc ccgggtcgac ggggacgaga ctctgatcga acaactggag ggaagtagtt 60
 tggatgggga tgagcccgtg atagaactgg aggaaagtaa ggaacctgag acagaagtct 120
 cagcaaattg ttgatttagc tgtaaaggcc aagggcgcca tctctgattg tagaaggtag 180
 caatactgtt catgtaaata caaggatggt gctattgtac ttgtactcgc cgtcctttgc 240
 ctgatgaagc agaagagctg tccaacaccg ccgttccttg gggagtcaga caaaacaaaa 300
 cctgtgaaaa caaaaacttg ggggtaacaa cctgacaatt tgggtttggg g 351

<210> 5030
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-D11

 <400> 5030

gtacagggtca ggaattcccc gggtcgacagc tggcatagat tcatcggcct tgacctccat 60
 ggggacggca tcaaaatctt cctctgatgc cttgtttttg cttttggatt tcttattgtc 120
 atcgtcgtcc tcgtaggact cgctcttgct tttagatttc ttctcggcat catcatcctc 180
 ggacgagtcg cttttttctt tggatttctt ctcatcatcg tcatcatcct tgttttccaa 240
 tttcttttcg ttcttctcat catcatcgtc atcatccttg tttttcaatt tcttctcttt 300
 cttctcatca tcatcatcat tgctcgtcgtc gtgcctcttg catttagact tgttagcttt 360
 cttctcatca tcatcatcat catcatcatc cttgtttttg gatttc 406

<210> 5031
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-D12
 <400> 5031

ggtacaggtc cagaattccc gggtcgacgg ggccgacaag cagtacaacc tccacatgcc 60
 ccaggagcgc caccagatcg gcccgacca gatcgaggcc ctctaccagt acgccaagtt 120
 ccagtacgag tgcggggatgt actcggacgc cgccgatttc ctgtcccagt accgcgctct 180
 gtgcaccaac agcgagagga gcctcagcgc cctgtggggg aagctggcgg cggagatact 240
 gatgcagaac tgggatgtcg cgcaggagga gctcaacagg ctcaaggaga tgattgattc 300
 cagcagcttc acctcgtcgc ctgtcaacca gctccacagc aggatatggc tgatgcactg 360
 gagcctcttc atcttcttca accatgagaa tggaaggaac gggatcatcg aact 414

<210> 5032
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-D5
 <400> 5032

aattccccggg tcgacgggga ggttgagaag ctgattggca ggatagtgaag gtggctgaag 60
 cccggtgggc atattttcat cagggaatcg tgcttccacc agtctgggga ttccaagagg 120
 aaagtgaacc cgacgcacta ccgggagccg aggttctaca ccaaggtgtt taaggaatgc 180

cactcctatg accaacaggg gaattccttt gagctttctc tggtaacttc caagtgcatt 240
 ggagcttatg tgaaaagcaa gacgaaccag aaccagatat gttggctgtg ggagaaggtc 300
 aagtgcacag aagacaa 317

<210> 5033
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-E11
 <400> 5033

aattcccggg ccgacggggg gtgaactact cctcttttgt catggagacc gccgggatga 60
 tgaagatggc ctccgatgat ggtttcctcc tccggcaggg tgtcgaaatg ggctctcggg 120
 tggtttttcg tggctacaga ggcttgccgc attttgggat ttatcagaat ttttggcgtc 180
 ggattcacat caggggggttc tcgagggacc cacaagccag ggtggcgcac ccaggggtag 240
 ggcgcgccctc cactctagt ggttcctcc ggactcttct ggcccaactt cgatgctcct 300
 gggcttggtg tggccataa aaaatcaccg taaattttca gctcgtttgg actccgtttg 360
 atattccttt tctgt 375

<210> 5034
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-E12
 <400> 5034

aattcccggg ccgacgggaa tcaacaggat caggtcctaa cacatatgtt gagactgaga 60
 cacttgctaa atttgagctg atggatgggtg cccagtcag aggagaatct attccagtaa 120
 ggctattctt gactccatac gagctaaccg cgacttaccg caacataaac aacaagttct 180
 gtgtcaagta ctacctcaac ctggtccttg tggacgagga agaccggaga tacttcaagc 240
 agcaagagat aaacatgttc cgtcttgacg aaactocaca gccttcatac acatctatcg 300
 ctgggaacct ggctgaatc gtgtgttgca agagtttagca atttggcatc ctgttatgct 360
 gtatataact ctccaggaga gcatgc 386

<210> 5035
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-E6

 <400> 5035

aattcccggg tcgacggggg aggagaagct ggcggaggcg aacgagatcg ggtacaaggt 60
 ggctcgccccg ctccgcccgc acgagaagcc cttcaagccc tacgagccccg tcttcgccgt 120
 cgtccagatt ggttcgacc agttcaaggt gagcaacggc gactccatct tcacggagag 180
 gctcaagttc tgcgatgtga atgacaagtt agtttttagat cgagttctca tgcttggtc 240
 acaagctcaa acaataattg ggagggcaat tcttactgat gctaacggtc atgctgtcgt 300
 ccaagaacat gctccaaaat gcaaagttaa catattccag aagaaaagga agaaaaatta 360
 acgccgaaca agggg 375

<210> 5036
 <211> 447
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-E9

 <400> 5036

ggtacaggtc cggaattccc gggccgacgg ggccatcagc gccttcgtct ccggcgccac 60
 cgtttatggc tacagaggaa agagcattaa gtctgccctc atcggtggtt ctacgtggc 120
 attcacatct gccatcctgg acgttggtgg taatactacc agagtggaca atggaaaagc 180
 gtaccatgca tacacaacgg aaaagaagcc cgagcctgcg cattgatcaa ggttgtctac 240
 ttgtagcaca aatcatgcaa accagctcgg tgaatttttg agctgatgcg tgctgttatg 300
 tctgttttgc tgatgcacct agttcctttg caaagctgta gtaacttggt ttgctcgagg 360
 gcaatacaac agacctggaa taaatatctt gctttatttt gcttagaaaa aaannnnnn 420
 nnttanaaaa aaaaaaaaaag gggccgc 447

<210> 5037
 <211> 403

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-008-Q1-E1-F11
 <400> 5037
 aattcccggg ccgacgggaa catgtaccag tttgtgattg cttgtaaagt aaagcccata 60
 aacacccaaa acgggtaata taatagcatg gaacaatcaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaataa acaaaaaaaaaa aaaaacaatc aaaaaaaaaa 180
 aaaaaaaaaa aaatcaacaa aaaaaaaaaa aaaaaataa aaaaaataaa aaaaaaaaaa 240
 aagggtacc caaattgact caactttaaa ttcctctgat taatacatcc tgcgctcctt 300
 acataatact ccaaacttat taacaacact gtcattgaaa aaatgtatca taggaaaaca 360
 cctgcatttc gaaaacttaa acccatttta aaaaccaccc ttt 403

<210> 5038
 <211> 365
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-008-Q1-E1-F12
 <400> 5038
 ccgggccgac gggaacacaa taaaaacca aggcttaacc gcagttcgtg tgttgcttat 60
 attatgtgtt gctattatat taccattatt aagtgagggg ggaattgatt agtgccagtg 120
 tttgtttttg ttctgtttgt cgtggtacga ggaaagatta ccaagtagat aaggcttagt 180
 agcagtttgg ctgtacctaa tcagtaccct tatttcattc cgactagtaa gtaaaaactt 240
 gttttttcct caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaagcggggc ctctaaagga tccaacctta ggtacccatc tatgctacat 360
 caaaa 365

<210> 5039
 <211> 350
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-008-Q1-E1-F5
 <400> 5039

cgggtcgacg gggacggcca gatcaactac gaggagtctg tcaaggtgat gatggccaag 60
 tgatccagcc gatgttcatg tccggtgga ttattatattt taccgggag gaggaattg 120
 tgcattgcat attagtagta aggaatgcgg ctctcgtttc cttgtctttg ccccgaaacca 180
 gaagaagcgt actagtagac gtagttgctg aagagcactc atggaatcct cctcccctgc 240
 tgctaccctg tctctctccc gtgtgtcatt gaaacatctt tctttctgtg tgaaaaaaca 300
 agaaaaatta aaaggatcaa accaagctct tcaaaagcat taaggcaaag 350

<210> 5040
 <211> 185
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F6

<400> 5040

gacgggttcc aaaaaataa taaaaagaat tcaaaaagt aaaaaagaa aaatgaataa 60
 gcagcagctc catgtgaatg aaccatgcgg cagctctaga ggatcagatc gtacgtcgtc 120
 gtgcatgcca cgtaatagcg cttcaatggc gcccggtata ctcatccac agggcgatc 180
 ttac 185

<210> 5041
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F9

<400> 5041

attcccggt cgacgggga ttgatggac cacaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgcccaaag gttcaaacct 180
 tacttacgct tgcattgcaac ttcaaacctc ttcaaatg taccaaaat tcatttact 240
 ggctttcttt ttaaaacttc ttaacggga aaacctggc ttaccat ttaatccct 300
 tgcacaaat ccccttttcc caagctggct taatacaaaa aaggccgca cctttcgccc 360
 ttcccaaat ttgccaccc taaatggcaa atgggaaccc cc 402

<210> 5042
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G11

<400> 5042

attcccgggc cgacttccac caaaacgata tccatcatct catcgaaaga cgggacacct 60
 ttgcctctat cactttcaaa atggaatcag gagtcatagg aagcaaagta atatttttat 120
 ccttatgaac aagagtatag tgattgtttt taccatgggtg tacagaattt ttatcaaagt 180
 gccatgggtct accaagtaat aaggaaatg cttgcatagg taccacatca caatcaacat 240
 aatcagcata tgtaaagata ctaaaatgca cacgaacagt acgtgttacc ttaaccttgc 300
 cgctgttgtt gaaccattgg atgtagtaag gatgtggatg tggctctgtg gtgagagaaa 360
 gcttctccac catctcc 377

<210> 5043
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G9

<400> 5043

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 ggcgagtctg aggacgtcaa gatgctcaac gacctcctcg tcgccaagaa tgcagagaca 120
 ggggtgggaca cgccgattca cgtggacgcg gccagcggcg ggttcatcgc gcccttcac 180
 taccgggagc tggagtggga cttccggctg ccgctggtga agagcatcaa cgtcagcggc 240
 cacaagtacg gcctcgtcta tgccggcgtc ggggtggatca tttggaggaa caaggaggac 300
 ctgcccgacg agctcatctt ccacatcaac tacctcggcg ccgaccaacc aaccttcacg 360
 ctcaacttct ccaa 374

<210> 5044
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H11

<400> 5044

aattccccggg ccgacggggg atgaatgtgg taaactaaaa atcaaagact ctaatcatac 60
aagacgctcc aagaaaaaca catatcatgt ggtgaataaa aatatagcct caagtaaagt 120
taccgatgga cgaagacgaa agaggggatg cctccccggg cataccaag cttaggcttt 180
tcgttgctct ttaattttac cttgggggtgc cttggggcatc tccaagctta ggctcttgcc 240
actccttatt ccataatcca tcaaatcttt acccaaaact tgaaaacttc acaacacaaa 300
actcaacaga aaatctcatg agctccatta gtataagaaa acaaaccacc acttaaggta 360
ctgttatgaa ctc 373

<210> 5045

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H5

<400> 5045

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gcatgaggta tttattgatt gtcttcctta tgagtgggtg cctgggacga gcgatgggtct 120
tttcctacca atctatcccc ctaggagcat gcgcgtagta ctttgtttca atgactaata 180
gatttttgca ataagtatgt cagttcttta tgactaatgt tgagtccatg gattatacgc 240
actctcacc ttccatcatt gctagcctct ctagtaccgg gcaactttcg ccggtaccat 300
aaaccaccca tataccttcc tcaaaacagc cactatacct acctatcacg gaat 354

<210> 5046

<211> 412

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-009-Q1-E1-A4

<400> 5046

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agcagtagcg cgaggagtac gatgcccagg acaaggagtt ggttcagctt aagcgtgagg 120
cccggatgaa ggggtgggttc tatgtcagtc ctgaggctaa gctgtgtttt gttgtcagaa 180
tcagaggtat caatgccatg cacccaaaga ccaagaagat cttgcagctg ttgcgtttga 240
gacagatatt caatggagtg ttctgaagg ttaacaaggc caccatcaac atgctccgca 300
nggtcgagcc atatgttgca tatgggtacc cgaacctgaa gagtgtgagg gagttgatct 360
acaaaagagg ttatggaaag ctcaacaagc aaaggattcc tctggacaac aa 412

<210> 5047
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A6
<400> 5047

attcccgggt cgacgggggc ggcaaccctg gacctcgact tcgacgacat ccagcgcgac 60
cgcgagtgcg tcatgtgcct gagegaggag atgtcgggtg tgttctctcc ctgtgcccac 120
caggtggtct gcgccaaagt caacgacctc cacgacaagc aggggatgaa ggagtgcgcc 180
tcgtgccgga cctcatcca gcgcagggtc tgcgcccga ccgtgggctg ctgagtgaga 240
agagagagat tttgcgttcg cgtegcctgc gctataccgt ttttctttt ctttttgatg 300
attgcccagc ttgaatttga tggagattgg aaaaaagaat aacgagtgtc ggtcggacga 360
ataacgcttg gtcgagacat cgtacacccc ccaaag 396

<210> 5048
<211> 409
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A8
<400> 5048

attcccgggt cgacggggga cggcacagat ggcgagcgac ggcgcggtga ccacgcccgc 60
gaaggtgacc ccgaagaagg ccaacctcct tgacccccac tccatcaaac acctcctcga 120
cgagaccgtc gccgaggtcg tgaagggcaa gggctatgtg gagaacacgc ggctgggcaa 180
ctggaagctc ctgatcggga cggccgtgat cgccatcgcg ctctcgcgc agttctaccc 240

gaagaagttc cgcgagaacc gcgagttcct gtcggttgc atcgcgctgt atgtggtgat 300
gaacgtggtg ctactgatcc ttagctatac caaggaaaag gatgccatca tcttcacca 360
ccctcctgct ggttctttca ataactgg ccttggtata tcttcaaag 409

<210> 5049
<211> 428
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-009-Q1-E1-A9
<400> 5049

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gacaacta aaggtaattg tgtgaggtgt tagttttagg tgccctgccc ttgcacaaga 120
ggaaatagtg cataaactt gatgggttct cacacacttc tctcatctca tttttggtgg 180
caaatagtagt taagtttttc ttgtcgctca tcatggaggc actcaatttt ggcttgtggc 240
actcactcta tttgtggtgg ctcgctttct cacttttctc tccacgatgg gtggcttgc 300
tgtcggcgat cacttgactt ggtgacatan gtcgtagcac gtactccttt cccttcactc 360
tgaagctata gtgattggtt cgcccattgt agatgacgca ttggtcaaat ttccatgatc 420
gtccaaga 428

<210> 5050
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-B12
<400> 5050

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atagttataa catagggtga tatagaacta gtcocattc atcaatgtaa tgtaggcatg 120
tattccgtaa atagtcatac atgcttatgg aaaagaactt gcatcacatc ttttgccta 180
ccctcccatg gcaacggggt cctagtggaa actaagggat attaagtcct acttttaata 240
gagaactgga ccaaagcatt aacacatagt gaatacatga actcctcaaa ctacggtcat 300
caccgagaag tatcccgatt attgtcactt cgggggtgtc ggattataac acataatagg 360

tgactataga cttgcaagat aggatcaaga acaaacatat attcatgaaa acataatagg 420
 ttcagatctg aaatcatgcc a 441

<210> 5051
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-B6
 <400> 5051

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 tgaaacttct tgtaataata actattttct tgatataata tccattggta tcggtgaatt 120
 gatcctttgc aatttgtggtt ccgaccatat gttcttcttt gattccatat ggaacactgc 180
 tacgatagca taggtatgac tatcttgatt ctgtcataaa atcgatcatcg atgtacatgc 240
 atgatagaaa acgtgaccta ctgtgacaaa cacgtatcat cacggaagtg tatttttttg 300
 tagtggaaga ggtagcacac gtctccgggg tgtgggcccc ctcatagacg gtgccgccgc 360
 aggacactag aggggggaaa tagccgcacg aggtctacgc ggagggatcn tgctatgggt 420
 t 421

<210> 5052
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-C3
 <400> 5052

gggtcgacgc gctcgacgag cagatccgtg atcatggcag gctcgtcagc tgggcaccgc 60
 aggtggaggt gctcgccac cctgcggtag gcgccttcat cacgcacagc ggctggaact 120
 ccacggtgga agccgtgtcg gagggcgtgc cgatgatatg cctcccgttg cacggagacc 180
 agttcagcaa cgccaggtac gtgtgcatg tctggaaggt gggagtggag atcgaagcgt 240
 catcagcggc tgggcagaac ctggagagag ggaagatcaa ggctgccatc gacaagattg 300
 tgcacgacaa agggattaga gagaggatgg atgccttcaa attagctgca gatgaagcag 360

ttaactccca aactgaggtg aaag

384

<210> 5053
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C5

<400> 5053

aattcccggg tcgacggggt ggatgctatg atcaatttga tgcttgataa ttgttttgag 60
atatggatgt agtgatatta aagttatgct agttgggtga ttatgaattt aaagaatgct 120
tgtgttgaag tttgtgattc ccgtagcatg catgtatggt gaaccgcttt gtgatgaagt 180
cggagcaciaa ttttatttat tgattgtctt ccttatgagt ggcggtcggg gacgagcgat 240
ggccttttcc taccaatcta tccccctagg agcatgcgcg tagtgctttg gtctttgatg 300
acttctagat ttttgcaaca agtatatgag ttcttttgac taatgttgag tccatggatt 360
atacgcaactt ttacctttcc atcattgcta gcttc 395

<210> 5054
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C6

<400> 5054

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cggactgcac agacatacct gactcaaaac gccacaact ttttcatacg gactccgaat 120
tgggtgattc tttttttgtt ggaaactaga ttctgtgctc tttccaacac aattggattc 180
acctttaaat tcgtccggag cattgagtta tggtcgaaac aatctgacgt tgcaccagaa 240
tccgagtcaa actacaagtc caaaggtgtt gcacacctc cacttgggcc catgtgcctt 300
gtacgaccta gggttggttt taggctgcct tgggacgtcc tcccacctcc ttggacgcca 360
ccccttgctc ctatataagt agatccatct agtagctttt t 401

<210> 5055
<211> 428
<212> DNA

<400> 5057

cccgggtcga cggggaacct tggaagcagc ccctcccaa ggacgatgac actattgtca 60
ttgagatctc acaccaaggc caggtgacca tgctagcaaa cgaaccctgc aagtcaatga 120
gcctcagtga cccgttgctg tcacacggcc acaacgacca cagtgcgaa cacaagaacg 180
acgtggatga cgaggagtgg gaggatggca ggaggaagtt tggggctgcy gagaccttca 240
agctccctga tgagatcgac attgctcatc tcagctgagc tgcatatcca ttcttatgac 300
aaagatcata tcttgccggt tcacaatatt tgtccagtaa agtgatatca ctatatgcaa 360
atagcttcat gcaaaaccct gtatagctgg agtttagtga accaagcgcg gaacaactaa 420
ttttaatt 428

<210> 5058

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D8

<400> 5058

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ggaagaagaa gatgcaacac aattatatct gggaatatag aattgtacta cgtagtagtt 120
taccgtgctg ctttcttttc ttttttgagg gtagatctga tgtctctacg tatgatagat 180
accgagtgtg tgggtgggtg tctttccatt cttttgggtt cgtgggtgcc atgtaaatgt 240
tgggtggatcg attccttatg tttttgcctc ctgcggtaaa taaaagctaa tgcagattcg 300
tgatt 305

<210> 5059

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E3

<400> 5059

gtcaagaatt accgggtcga cgcgcattgg gaccttaaaa gagcaattga tgtggacatt 60
ggagccaatc cctctgctga tgggtggagg gatgatgagg gtgtccatta ccaggccgtg 120

acggtggttg acattgttga cacgttccat cttcatgata acactgcttt tgacaagaag 180
cagtttatct ctcacatgat gcgctagatc aagaagctct ctgccatgct tgaaagggat 240
gacctagatg ttttcaagaa gaatgttgag tctgccacat agtatcttcc tatcaagctc 300
aatgaccttc aattcattgt tggcgatagc atgcatgatg atggcagcgt ggtgttcgcc 360
tactacaagg agggagctgc tgatccaact tacctgtact ttgcacatgg gctgaaag 418

<210> 5060
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-E4
<400> 5060

gggtcgaggg gcttgctaac taaatggcaa ttggcacata caattcgtcc agttgcttct 60
cgtgggtttt cataaccctg ctgcgcaaaa atgggatatg catttgaaat agatgtccga 120
gttattacgt atatcatgat cgatacagaa atcgatcgag ttatctgttc ctttaccocaa 180
gaaaaagtat ttctattttc catgtccaat cgcagatccc agaatttcta caataaatta 240
gataggtagc taagctaata tagttcccta tacacgaata tgttgtcatt ctactgcaac 300
agttgtactg caatgatgaa taccttaaag taggtataaa tagaaagaat ttgctaaaa 360
tggaagaggg ctttctttct aaaaaagat gcttgctaata ttgattaata ttaatatcgg 420
gagatcgaat gaattta 437

<210> 5061
<211> 416
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-E6
<400> 5061

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agaaagttac cgcaaagat aggatttcag ggaggcttct aaatggtcgt gctggggacg 120
caacaataag agaagcttct aatactgagg atatgaccta cagggaagca ttcccaaatac 180
agtggcagtg aaagcaccct gagtaggtct ttcttcataa ttaacagttt tgttttgctg 240

tgctgttgca tgcttgaagt gcttgaagta cgcgggggcac tgaagctgct tcgaacccgt 300
 gcatggaaaa tttcagaaaag gaaagtcgta gaccatttgt attggcagtc ggattgagaa 360
 tccaaatcag aacaacgcga cagtaaataa gcactcgatt ttgtgaacat gccaaag 416

<210> 5062
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-E7
 <400> 5062

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 ccgtgtagtt cgtgcgatcg aggccccgtc atgttcatta aatactgtac atactgtcta 120
 gtagcaccgt gtgtgcggtg tggcctcgaa tctcgatgta atataagacc tatgtaattc 180
 gctagcatca ataaagcggg tgtttctata ccatgttggt gtgtattgcc agaagacttg 240
 atctccgggc tggcaatgca aggtaaaccg gttgctctga gccgggggtgc cacatcccca 300
 taaagctaaa tgtggtcgca ctgagaataa ctcgattcag tggcaccatg actcgattaa 360
 cattatattc aagtgggatt attatcaggt ttaacttgaa aataaaatca nccaag 416

<210> 5063
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F3
 <400> 5063

gggtcgactt ccaccaaagc gataaccatc atctcatcga aagacgggac acctttgcct 60
 ctatcaagtg gtatcagatt tccaggttgc tcggtgagat ttacagttt ttcatagttt 120
 agatcgagtc tgttcttcat acctacagtc cagcaaaaag ccacaaaaaa aaattagggt 180
 tagttcatca tatccgaacc aatctgagcc tttgcataat ctttttaggg tttttgcttt 240
 gttgaatttg cggttgcac gtcgtgtcaa gttgctggtc ttagagtcta gtcttttaga 300
 gtttcgagtt ctggtcataa gttgtcacgc cgccgcccga ccatcatcat cgctttacca 360
 tctaccaccg ttgcttatcc accaccgctt tgaatccgta tccatatacc aacaacgctg 420

ccataaaata acggca

436

<210> 5064
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-F5

<400> 5064

aattcccggg cgcacgggtc ggaatcgggt tgactcccct ttagtctttt tcttttcttg 60
attgcttctt cagatccgac ttgtgctagt agcacttgat atcttctttt cacgtacata 120
gcaagcgggg atcaaactct gtagcttacc atgatgagta ctagtacttc ttgataattt 180
ggatatgggct agctgactag ctgactcttc acgcggccgg ttcagacggc gcaacagaca 240
cgggtggctt agcttgagc aggcgaccgc gacccaacat gcaacaagag tcacccgagt 300
ccgtgctcac gcccggtccc ttctccaagt cgcggccggg ttgaccaatc cattccagtc 360
gtgggtgatc tctgattttg tgcttgactg taecgcgctg gattcgatcg acagcgtgt 419

<210> 5065
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-F7

<400> 5065

attcccggtt cgaccagctc ctgcagcgta gtgacgccag cgagaatgtc gtcacgccc 60
gcgaaggact tcaggaacgc cggctcgtcg cgatggccga cgccgtgaat gcccttgtga 120
gagccctcgc gtgcccgtga gagctcgttc gagggctctg cggcgcaccg gggcatctct 180
gctgcggctg cggcttcgtg gcgggacctc tctagtgttt ccgcggcctt gatctttgct 240
ggctgggttat atgtccaccc taaactcctc ctaccggtca tgggtggaatg acttgacagg 300
aaagaccagt tttgtgggtg atgacgagag gaactgtgaa gtaattttcg agtgggtagt 360
ttttatagcc cgatgctaag tgtgaacacg tattagtttg ataggtgtga acagatttg 419

<210> 5066
<211> 379

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F8
 <400> 5066
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 gcgacgctct acactgggtct tgttgtatgg tagtcagtgc taagtttctt aatgtcattt 120
 catatatatta tcctttccat tttgagtcgc tgaaactgct gagtgatgtg cagtttgctc 180
 tgttagtcgc tctgtcactt tcacttttca tattctttgt tgtgtagttc ctcatactgc 240
 tctttcttcc tgagtctcgg aaagaataat aaagagccat gtgtaattct aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa aaaaaaaaaa ataaaaaaaaa 360
 aaaaaaaaaa agcggccgc 379

<210> 5067
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-G1
 <400> 5067
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 cgaccaacaa cggcgacatc gtggacgcct aagcaaagca atgagccacg gacaccaagg 120
 cgtacgtacg ctggtgtttg gggggcgcaag atcaataaga tggttcgggtg aaacggagga 180
 tgcttaggga cgagggcttg tctttgtgat ttgtcagact cgtgtttaat tccgatgttt 240
 gtcttttagtt ttcttgtgtt agcgtatctt gttcatgcca cctgcccgcc atgtgctctg 300
 ccctgcctct gcctcgcggc agttccatgg atgatgaatc cttctggaac aagaggaggg 360
 aataaaaagg ttgagttcg 379

<210> 5068
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-G11
 <400> 5068

attcacgggt cgacgggacg gtttatacta tacatctatt ttgctgatcc gacatgccac 60
 aggtcccgag gcatcgattc gtggatgttt gtgatattcc catcgtgtga aaaccaaagg 120
 catgttcac tactagtact actgacgtgg aggcagtacc tactaaagta ctatatttca 180
 tatttataaa tccttcaatg gctgttgagc actacatcta ctgatccatc aagccatcac 240
 gtcaaggcgt gtgccgatct caacacagag atcaaggaat actacagata caagatcaga 300
 tcaacatggg tctccagacc agcgatgacc cggacacgga ttaattaaac caaccatgat 360
 gtggaggaag actcggattg gactcggatt ctgacatctc tg 402

<210> 5069
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-G12
 <400> 5069

ccggtccaga attcccggt cgacgggctg gcggagaagt tcatcgcgag gttccacgag 60
 aagttcttgc tggagaagca ggagtcgtac cggaggtacc aggagatgat cgccaggagc 120
 atatgaacca cgagatccat gacgacccat cgagggttca tccattgcgc cgggcggctt 180
 ggtgtccgga ctctgagcat ccggagtact acgtgagtag gaatttgatg ttgagcagtg 240
 agtaattcat ggtgcagctc ttcgtggccg tgccctgaaa ttggagtcgt tttcgtctgg 300
 ggcgtgtcgt gtgtcgtgtg tcgtgtgtcg tgtgtgcgtg tgatgattta atttggtgga 360
 ttcatgtaag gttgggttac ggtcgaagca aaattattct tcgggaggac aaaa 414

<210> 5070
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-G3
 <400> 5070

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 gaagtcggca ccacatttct catttctgtc aggtacaccg gatgctgata gcaaagcagt 120
 gcactgcaag ttggagatgg tttagcgagt gcatgttctt gtcaagcgtc gttgctgcac 180

gcaggggctg gccctgcatg gattgatgta tttttacact caagctcgca atgtaacacc 240
gagatttggt gttctctagc atctactact atacgtgatt gcaacgaacg gaccaagaca 300
tctgatgaac acttgtcatg tttccctgtc gaacatcctt aatatatcaa gaagcgttgc 360
tgctctgtat ct 372

<210> 5071
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-G6
<400> 5071

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ttggtacgtt aaataaagag tttagtttcg tatttacaca atttaaaatg attgttatgg 120
agagaataag aaaaccactc cactatatat tagtcgtata cacgagtact atatggacgc 180
agcttcattg acttttagtgc acttgccctt gggtttatga taggtggggc caaaatgtgg 240
ctggcccacc tgtcatcacg ccaaaagcag gtgcagttaa gacactggag ctcaagtccgt 300
actacagtat atatataagc tggagcctca gcacttgctt tctagggctt gcactctcca 360
cactctcgct gcactacata tatatatata cgctgg 396

<210> 5072
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-G7
<400> 5072

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tagaggcgga tcgttggtca ggctggccgc gccgctgctg ctgctgctaa ttgctctgta 120
agagtgtaca atatggaaag cgtccttgag ttatacagaa cgtgccagct tccttttgtg 180
atcggggaaa gaggggaatg gggatggata acacggaaga gcaacgcaat gcatgcatcc 240
tatcttcaat agtctgtaaa agtttttggg atgggcactg ccggtgaagca tgaaatatgt 300
tggcacttgg cagtcttgta ttgttttgat ttcgttgtgg tttgaggcga gtacttggat 360

taccaacacg aagcaacggg cttgagggag tgcagatact tcgttgatgc tcgacgaatg 420
ga 422

<210> 5073
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-009-Q1-E1-H11

<400> 5073

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ctgggcgga ggacgacctc gaggcacggt tacttcgacc actttctcct acgacaacat 120
aactggatgg attactaatt gcagcgcata aattatgttt cattagcata accatcgcat 180
aaccaggcat gaatgtccca tcattatcag gggtttattct cttcaactat ttttgcgctc 240
atgtgctcat aaattttatt attagagcaa aatcagcata ttctctttta ctagcacatg 300
cccacaattt tttccatta tagccaacct gcattattgtc ttttattggc acgtgcaagt 360
tatctccagc aataatttgt ggagtccttc attctgctca taattctcga nacaacctcc 420
ttattctcaa ataacctcct taatt 445

<210> 5074
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H5

<400> 5074

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gatggatatct cgctagccct ttctgagacc gcaaaacata aatgcagagc acctttaaag 120
atcaaggact gactagacat tgtaattcat ggtaaaagag atccagacaa gtcataactca 180
atgtaaacta acagcaatga atgcaaatga cagtgggtgct ctccaattgg tgctttttta 240
taagaggatg atgaatcaac ataaaactaa atagataggg ccttcgcaga gggaagcagg 300
aatgtgtaca ggtgccagag ctcggttttg aaataggggt gaataatatt ttgagcggtg 360

tacttttcatt gtcaacataa caaccaagag atggcgatat cttccatgct atacacatta 420
 tacgcagttc ccaaac 436

<210> 5075
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-H7
 <400> 5075

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 ccttcgacga gaagtttcat ataccactca tcgaggggct ccgtgagctg agtatcaacg 180
 tgtggaacag caacacaatc aacactgatg acttcattgg cagctgcagg gtgccactga 240
 acaaggtgct cagcagtggc tacgatgggt cctcgtggcc cctccagaca cgccatatga 300
 agtctgctgg ggaagttaag cttatcatgc actttgatgt ctcagcaatg aagaacaaga 360
 tggcaggtaa aacttctggc cagtacgctc ctttcgcata cggcgctcc tcagcttcat 420
 acccagc 427

<210> 5076
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-H9
 <400> 5076

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 ctgaagcccc gtgggcatat tttcatcagg gaatcgtgct tccaccagtc tggggattcc 120
 aagaggaaag tgaacccgac gcactaccgg gagccgaggt tctacaccaa ggtgtttaag 180
 gaatgccact cctatgacca agaggggaat tcctttgagc tttctctggt aacttccaag 240
 tgcattggag cttatgtgaa aagcaagaag aaccagaacc agatatgttg gctgtgggag 300
 aaggtcaagt gcacagaaga caaaggcttt cagagattcc tngcgaatgt gcagtacaaa 360
 tccactggaa tcttgcgtta tgagcgcgtg tttggggaag gttatgttag caccggtgga 420

ttcgagacca c

431

<210> 5077
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A12

<400> 5077

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ttgtcattc agtaagccag gatcatcgga cacctatgag caccttcgag agactgagac 120
gacatgaaat ggtaaggcca cgcttgggag ctctggtttg tttcacacct gtattaagat 180
acagggtgtaa ttactcgtc atcggaaca atgcgtaaag tacaggcgta atgaaaccga 240
gggcccggagg tctataagta aaaccggcag gttacgcgtg taatttgaga gaccggtgta 300
tattttacta gtcgaaatcg accaaccaag cgcttcgccc gagaccatct gcttttattt 360
acaagcatca gttttacatg cggttttggt tgggaaacga cgat 404

<210> 5078
<211> 239
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B12

<400> 5078

cctatagtga gtcgtattaa attatcgggt ctcatgatgt aacaccgaat catcattgta 60
atctccatat gtagatttct ttgtactcat aaatatatat gcttaagtcg ttggacatca 120
actaatcact tagccgctca ggtgaatcta ttcgtagttc agagtacggg ataggagggtt 180
agacgtttac tggtgacgtg gtgtactcca tcacctcatg atttatacat gatgtcctc 239

<210> 5079
<211> 192
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B4

<400> 5079

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 tatatgtgtt gttatttgaa ttgaattgat ttgaacacaa acaggataga gaataactag 120
 caaatgcaaa cgatgccgac ggcctagccg tctgcataag gccaacgtga gctcccagta 180
 gctcgagtt aa 192

<210> 5080
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C12
 <400> 5080

ttcccgggtc gacgggatga catagtcaac ggcgacggcg gtagccgcgc cactgctggt 60
 gctggtggta gcggcggcgg tgggtgggtgc tgcggtggtc gcgttccacc ggaggccaac 120
 cgcagaactc gtgtcgcccc ttaccgcgag ccttcgcgaa ggtgatggac gcgccggtgc 180
 tcgtgacgtg cacgcaccgc tgcgcttgta ggagagagat cagagcaaga agagagcaac 240
 cagcgtgaaa aaaaacatta gcaaatcaga attgttgtc gatccccttg ttgggggtggt 300
 tacaacttag tgtttagatc atctttgatg acaattgacg ccgtcgatct gtttaattgt 360
 gttccttttg ctggttggtg cttcagtcgc agccaagaat tggcgtgga 409

<210> 5081
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C4
 <400> 5081

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 caaagatgag gaagaagctg ggcacccggt tccccgcggc acggatcata aagataatgc 120
 aagcagatga ggatgttggc aaaattgcac tggctgtgcc tgttttagtt tcgagagccc 180
 ttgaattggt tctgcaagat ttgatcgacc actcatacaa aattactctt caaagtgggt 240
 caaagacact gaattccttc cacctaaagc aatgtgtgaa gaggtacagc tcttttgact 300
 tcctaactga gattgtcaac aagggtccag atctcggtgg cggatgaatct ttgtgaaaat 360

aaaagaggat taccacaat aaaggaaatt ttcaaagg

399

<210> 5082

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-C5

<400> 5082

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cgaacctatg ggataaccta cgatgatagt tgatttgatt ctgctgaaaa acagaaactt 120

tgacgcgacg aatataatgt tgttaaatca caggaacgta attttgcggt gattcttttt 180

tatgctgttc aataaacaaa ttttccagga ctctctatgt tggtaggatt tttagatttc 240

cataagtttg cgtaggttac aggttgctac agactgttct gtttttgaca gattctgttt 300

ttcgtgtggt gtttgcttat ttcaatgcat ctatggctag taattcagta tatgaaccat 360

aaataagttg gagtaggttt aacacaaaaa taaataaaca atgagttcat tgc 413

<210> 5083

<211> 206

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-C6

<400> 5083

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attgtgtgga aagctctatg gtatgcaggc aaaactacgt gtttggtaaa tcagatggaa 120

gtgggatcgc gttaatgctc ttctagagag tgatctgtac aactttgcga ggagttcatg 180

atatgataag agtttacaaa tttcca 206

<210> 5084

<211> 390

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-C7

<400> 5084

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acgttgcaag ggcaggatcc tgggcgtccc ctggcgctgc tgccctgacg accttgctgg 120
aagttctgtg gcgtcgctgc cctgacgacc tcggggaagg aagcgacact gctcgcggaac 180
ggctctccatg ttggtcggca acaatggcga tgacgttggc gaaccgtgat tgtacgggggt 240
ggatgggggg tgctggaagc ggaacacggt cagtcaaggg aaaagggcct tgtgtgatgg 300
aggcgtgcgg gctgtgcgtt cccctggtga acgaatctgt atcgacncca tcgtactgaa 360
cgactcatgt ggtacaaata taatactggg 390

<210> 5085

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D12

<400> 5085

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ctcggattca aggtctaaac gcgcattgat atgcattgat gcaacgcctg cccctgtac 120
atgagatacc gatcgaggta aacgtaattgt gtgtacggaa cgtgtgatga ctgatgcttg 180
caagatcagc aaaccttcgc tgctccgtta tcaccttctg ttcttttctg gagttctctt 240
ttccctggta aatgattaag tgtatgttgt gagttgtgac attgattaac tggaaaatgt 300
atcattcaga tgcccatata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaac 360
aaaaaaataa aaaaaaacgg acacccaaaa gg 392

<210> 5086

<211> 436

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-D2

<400> 5086

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gtcaacagcg tccgcctcgt cattttgcgc cagcacaact ccgctgtggc tgccgggaggg 120

aatagaggag aaggcaggaa ggcaccagaa ggggacgcag tcaccgccct aggtgccgac 180
ccatcagaga cgcagttgat gatggtgcgg cggagaagac gacgaaagca caagagttca 240
aattcagtcg tcacgtccg cttcactccc gctacgactg agggggaatg ttagaagtat 300
aattatgttt aagttagaga taggattggt ttaaaccaca tgtaacttgt cttgtactcc 360
aagtctctat ccctcatgat gtactctata ttatacccta tganggtcag attcaataaa 420
ccattattat caaccc 436

<210> 5087
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-D3
<400> 5087

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tcattctggc aaaccaagat aaggacaact tcctcatgcc ttactttccc gagtaagtcc 180
tccctcaac cgccccgtaa catatgaatt cttagatttc gatcgttttt attttaacat 240
tccgtgtttt ctgcagtgc acacattgca cgctcactct cctaagcccc aaatattcca 300
tggccacgta ttctgacccg gaccgtcagt cgaacgtaga ctacacaaat gtcaagaagg 360
ttcttgatga tgttctcccc ggctacgtca aatatggagg caccttcacc aggcctaata 420

<210> 5088
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-D4
<400> 5088 /

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aatgaatgtg actccaaatt tgtacagcaa acggtgctga ctactgcaca atgacgtctg 180
atcgtctatg tacaccatgt ctgtacaatt tacaccgtga ttaacagcgg tacactctct 240

tttgcacata tccagcagag atcaacgaaa cgaaggccgg cactgttcaa aatttgtacc 300
cacttcgaaa agtatagatt gattgtatca catgaaactg tgaaatctga tatatccatt 360
caccactcag tgtgaagtaa agtatgtcc 389

<210> 5089
<211> 175
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-D6
<400> 5089

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caagacgtgg taacatcgta cggagtaccg cgcgtaattt ttagtttgtt tcttcttcag 120
gtggtggatg tccatcatgt ctatgagcac aggcttctgg gttttgacag agtct 175

<210> 5090
<211> 400
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-D7
<400> 5090

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atggcgacgg cttcatcgac ttcagcgagt tcatctcctt ctgcaacgcc aaccgggggc 120
tcatgaagga cgtcgccagg gtcttctgaa tcagttcatt tcacctcaac cgtccgatcc 180
aggagccgat ccatctacgt acggcttcgt aaatcaattt catgcaacta cctactccgg 240
tcccgatcca gcctcagctt cacctgaggc cggccctaatt tttgtttgat caattttttg 300
ctactagtag taactagtga tgattactgt tgcaccattt acttatttta taacgtcaca 360
actttccagc gtttcttttc attctctacc tttttgtcga 400

<210> 5091
<211> 320
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-D8

<400> 5091

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ccactcccaa taatggctctg tgctacaagt gtggacaacg aggtcatcgt gccagggact 120
gcaatcagaa tcagaatcaa cttgcccttg cagcatcggg ccgtggtaac aaacagcccc 180
gcagcaacaa cgctaagtcc taccgtcgtg ctcatgctaa atacgttgat ctcaaccaag 240
ctcactacca gccagctact gtgatcggta cactcctcgt aaattcagta ccaggaaccg 300
gtccgatgtg acacaggtgc 320

<210> 5092

<211> 342

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E3

<400> 5092

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gatcgtacag ataactactg gtatataatc tcatccccga tcgggtgaatt actctctcct 120
cgtcatgcat agcgccggca tgatgaacat ggccattcat gtgaacgact ccctcgccgg 180
caaggttact tcatgggctc acgagatggg ttgtgggtggc tacagaggcg tgcggtaacg 240
gagctcccga tctatgtgat gtcttggggg tttctgtagc tcttggacgc tttggcatct 300
gaagcttgtc gtgggctgca ccgaggctac catgaggtac gg 342

<210> 5093

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E4

<400> 5093

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attagctaga agagccgcca gccctctgt acatagcaag aataaatatg gagagagagg 120
atctccctgc ctcaaacctc tagtaggttt aaaactctca gtctcttcag tattaaagcg 180
aaccgggtac tccaccgaag atacacattg cataattaaa tttaccaggt tctcttgga 240

tcccaatttc aacataatat ccttcagaaa agaccactct acccggtcgt acgctttgtg 300
 catatccaat ttgatggcac acataccctc tttaccattc cttttttctt tattgtatgg 360
 aaacactcgt acgccactaa aatgttatct gt 392

<210> 5094
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-E5
 <400> 5094

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 tatgtgatgg ttatatTTTT gaattccttc atgatgttac tgaaaattat tatgagagat 120
 gaacatatgc ttctacatat tgcaatatta tcaagtttcc tctctatgta ttgaaaatct 180
 tgaagttttg cttattttac ctctctatgc tagttgatcc ttgctctcat aaattgtttg 240
 ttcacaaaat ccctatgcat aggaagtggg ttagacttaa atgtgctagc catatgctta 300
 atgatgctcc tgttatgttt caattcttat cttttatgtg agcatcatcg aaatcatcat 360
 gactagctaa aaaggcatta aagaaaagct cttgttggga gacaacccaa tatttaccct 420
 tactttttta aggttt 436

<210> 5095
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-E6
 <400> 5095

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 agtagatatt acaacaatat gaatttagaa tgagttcaca acagtaccta agtggtgatt 120
 tattttcttg tactaacgga gcttacgagt tttctgttaa gttttgtgtt gtgaagtttt 180
 caagtttggg taaagattcg atggactatg gagtaaggag tgccaagagc ctaagcttgg 240
 ggatgccccaa ggcaccccaa ggtaatatcc aaggataacc aagcgtctaa gcttggggat 300
 gccccggatg gcatccctc tttcgtcttc gttcatcggt aactttactt ggagctatat 360

ttttattcac cacatgatat gtgttttgct tggagcgtca ttttaattta atttgttt 418

<210> 5096

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E8

<400> 5096

aggtaccggt caggaattcc cgggctgacg ggggtgttaa attgcaacac atacgaagtt 60

gcgacagcat gtgctttggc tatcgaggcg gacaagctta tctgtgttgt cgatggccaa 120

atatatgatg agcatggccg agtcaatcgt ttcattgtcta tcgaggaagc agatatgctc 180

atcagaacac gcgctaagca gaggtaaaact gctgcaaatt atgtaaagggt tgtaggggag 240

gaggacatta gttatgccca caattttcct atcaaagagg agaaagagca agtatgagtt 300

ggaagagatt tcattcagtga ttactctgca tcctttcgga atggtgtggg tttcaataat 360

ggaaatggtc tgtctgggtga gcaagggttt gctattggcg gggc 404

<210> 5097

<211> 379

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-E9

<400> 5097

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aggaattgtg cggtgccact gtgctgtgag gataaggatg tatattaggt ggaaaagaaa 120

acaccttcga attgtagcaa gctcgagctt agcccatctt cttgacgtac ccataactgt 180

aggtgcttaa agagttttca gcgtgggtgg acgcctcagg ttgtctacaa aaactaatta 240

ggagtactca gtgttttttc gaataaaaac atctgtgtta ttctcacttt tattttaata 300

tattttatat gttttatataa aananaaaaa aaaagggtgag agtttaaaaa aaggaaaaag 360

aaagatagga aaaacaaag 379

<210> 5098

<211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F11
 <400> 5098

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 cttactctgc attccttaat cttcattcta catgtataat agcagacaca acagtataat 120
 taggacatat atatactgca ggcaatatga atgacatggg gtagatatta atagatcact 180
 tatagaacgt agcaactgat gatataattta tcgagctcgc gcagattgta aagctgcaac 240
 aattcattca gttcaatttg tacatcgtaa ttgtttgaag tgacgctcat gtctaagttc 300
 cgcataaata tactctt 317

<210> 5099
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-F2
 <400> 5099

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 gggagtcggc acgcagcaac gaggcggtcg aggaggcgcg gatcaagctg ctggagctgc 120
 ggcaggtgaa caaggtgaag gcgctcgtcg gcgccttcga gaccgtcatg gacgacaacc 180
 aaagccccac cgccgcccgc aagccgcggc tcaacctcgg cgctgaact acgagtacat 240
 tcgatgagca tgaagctcga tcgctgcgc ctctctcttt atccccgcta ctctttaatc 300
 acccatcaac ccaatttgtc gtcgtcgac acttatctat aattacggtg tcgcttatat 360
 tctgcaagga ngaagatgat ggagggtta tcatcatgat 400

<210> 5100
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F3
 <400> 5100

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 gcctaagctt ggggatgcc cggaaggca tccctcttt cgtctttgtc tatcagtaac 120
 tttacttgag gctatatttt tattcaccac atgatatgta ttttgcttgg agcatcttgt 180
 atgatttgag tcttcccttt ttagttttcc acaatcatcc ttgctgtaca caccttttga 240
 gagagacacg catgaatcgt gatttattag aatgctctat gtgcttctact tatatctttt 300
 gagctaggca aattttgctc tagtgcttca cttatatctt tttagagcat ggcggtgatt 360
 tcattttata gaaattgatg aactctcgta cttcacttat at 402

<210> 5101
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-F4
 <400> 5101

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 acaccgacgg tgacggcttc atcgacttca gcgagttcat ctcttcttgc aacgccaaacc 120
 cggggctcat gaaggacgac gccaaagtct tctgaatcag ttcatttcac ctccagccgac 180
 cgttccagga gccgatccat ctacgtacgg ctctgtatat caatttcacg caactaccta 240
 ctccgggtccc gatccagcct cagcttcacc tgaggccggc cctaaatttg tttgatcaat 300
 tcttttgcta ctagtagtaa ctagtgatga tctactgttg atcatttatt tattttattt 360
 atatatcatc acaagtttcc tacaaaaaaa aaaaaggana aaaaaaaaaa aaaacgggag 420

<210> 5102
 <211> 263
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F5
 <400> 5102

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 tgttgtatga tatacagtgc aatatttctt aatgtcaatt catcgagtta acctttccat 120

tttgagtcgc tgagactgag gagtgatgtg cagtttgctc tgtagacgc gtctgtcact 180
 ttcacttttc atatgctttg ttgtgtggat cgcagagtg ctctttcctc ctgagtctcg 240
 gcaagaatat tagcaagcca tgt 263

<210> 5103
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F6
 <400> 5103

gtaaaggcca ggaattcccg gctcgacggg ctctctcaaa acagccacca tacctaccta 60
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 tacatgactt gagaattcat tgtcttattg atttgcatga tcataagata gctagcatga 180
 tgttttcatg gcttgtccgt tttgtcattg ctatgctaaa tcattgcata tcccgggtaca 240
 ccaccggaag cattcatata gagtcatatc tttgttctag tatcgagttg taatatcgag 300
 ttgtaagtaa ataaaagtgt gacgatcatc attatagagc attgccccat ggaaaaatta 360
 aaaaatcaac aaaaagtttc cat 383

<210> 5104
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F7
 <400> 5104

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 tcagaagggt gcctactacg ccatccatca catgcgggcg atcgtagcgg accatcatca 120
 acttctgcta ccgagtaaac tcaaagattg ggccgcgagc gtgtcggcaa tccaggacgc 180
 ggacctccga caagaattct ttccgatcca gtcggagttt gcggaaatca tccatcaaga 240
 tgtccttctg acctcggggc agttctacct caaaaatcaa ccgccaaca gtgacatcga 300
 cacaatgcta caaatgcagg ctgacaacga ccgttatctc atgactccca cgatagacgg 360
 cggcttcac ccatgctccg tcccttgagt cgagtcgaaa 400

<210> 5105
 <211> 355
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F8

 <400> 5105

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 aactcatcat catggtcggt ccttactctg cattcggttaa gcatcactcc acatgtataa 120
 cagcagatac actcttcatg gtaagacata gagttactgc aggcattcag atcgagatgg 180
 ggtagatctt aagaaagcac ttacagaatg taacacctga cgggagactt agcgaactcg 240
 cacatattaa tgagctggta cacttcactc agttcaattt gtgcatattc atgcctgata 300
 tgatgctcat gtccaacttc cacataaata cattctttgg cgtcattagc tttta 355

<210> 5106
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-G10

 <400> 5106

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 cttgctgctc ctacttgcaa ttattatgag agaggaacta catctccgcc tctttatggt 180
 tccaacacga taaaattgca agaactctgt tatactatgc attggccttt actatgtgtg 240
 catgaattgt tcttttatga catgccgatg cataggaata gagttggact tcgttggtgc 300
 atgatatatg tcactttgtg ctactacta aattacaaat cattgttaat taaaattggc 360
 tttgatatac cttgggatct cgggtggattc gttacgtgag cactaaatgc ctagct 416

<210> 5107
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-G11

<400> 5107

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cttggttgga actgggctgg ggggttgctg tagcttggtg gtgcctgaag ctttatgctt 180
ccaggatgtg atgggtccgag cgatgcggaa acgggtactgt aactgcatca tatgtttatg 240
gtgtcgatcg ccttggggtga tatcatcttc ggggtgtact ctagaaacaa tgggtgcttga 300
gctgtcatgg taaaagtaaa acattgcggt gtaatgctgc atttcacatg ctgggttagt 360
tatgttactt tcttggtcgt gtacgccgtg gtgctagtga ggtggctcct atgttggcta 420
agat 424

<210> 5108

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-G3

<400> 5108

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acctgatgat caaaggatgc tgtgtcggcc ccaagaagcg cgtggtgacc ctccgccagt 120
ccctgctgaa gcagacctct cgtctggccc tggaggagat caagctcaag tttgtcgaca 180
cctcttccaa gttcggccac ggtcgcttcc agaccacaga cgagaagcag aggttctacg 240
gcaagctcaa ggcttgagct gccgccgcg atcatcagtt atatcatttt gtcaaaacga 300
acatgtgata cttgattact tcccctgcct aagttttgta ctagttgatg ttttcagaat 360
ctggctcatc ag 372

<210> 5109

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-G5

<400> 5109

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gcactacatt gatgttagtg thtagagtag gcaaatttgc atgtctcttg ctagttgatt 120
 ttactcttct ccgaatcata acttgtgatg tgtgcaagta cagttaacaa agaacagcaa 180
 cataaaagtg tgcaatagtt tggatccttc tgtgttgaat gatgaaatca tactttagat 240
 ccttctgtgt tgaaagatga aatcttactt taaaaaagggt aaacaccttaa aatacagtta 300
 aagaaaaatg aaaagcccaa caaaagggtgc acaaatttca attcaagggg catctgttaa 360
 aaaaatccgt aactgggaaa acc 383

<210> 5110
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G7
 <400> 5110

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 catgttcgca atgaaagata aattagatct ttccctggga gttgcaatag ggtcatcaac 180
 acaaatgtcc atgtttggga taccattttg thtagtgata ggggtggatga tgggccagcc 240
 catggacttg aactttcatc tcttcgagac cgcaagcctc ttaatgacgg tactggttgt 300
 cgcatttttg ttgcaggatg ggacttcaaa ttgcttaaaa gggttgatgc tgtttctatg 360
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<210> 5111
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G8
 <400> 5111

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 gggcacgtac ggtcgtggga gaccaaggac agccagctga cgatggtggc ggacgacctg 180
 aagccgcgag cggtgctgac gtgcccggag aagaagatga tccagcaggt ggtgttcgcc 240

agctacggga acccgctggg gatctgcggc aactacacgt ttggcaactg ccacacgccc 300
aaggccaagg agattgtgga caatgcgtgc gtggggaaga ggagctgcgt gctggccgtg 360
tcgcacgacg tg 372

<210> 5112
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-G9
<400> 5112

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aagctgggccc agaagtctgt ggtcgacgtg gacgcctgga tggacctcgc cgccgccggg 180
gactccgacg acatcgccca caccgtcagc tacaccgaca tctacaggat agccaagggc 240
gtggtggaag gcccgtcgcg gaacctcctg gagtcgggtg gcgagtcgat cgccggcacc 300
acgctgctcg agtttcccca gatctccgcc gtccgggtga aggtcgggaa gccccacgtc 360
gcggtgcatg gcgtcgtaga ctacctcggg gtggagatac tgaggaggcg cagagaggca 420
tgagcacaag 430

<210> 5113
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-H1
<400> 5113

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ccgggctcat gaaggacgtc gccaaagtct tctgaatcag ttcatttcac ctacgccgtc 180
cgatccagga gccgatccat ctacgtacgg ctctgtatat caatttcatg caactaccta 240
ctccgggtccc gatccagcct cagcttcacc tgaggccggc cct'aattttg tttgatcatt 300
tttttgctac cagtagtaac tagtgatgat cactgttcca tcatttattt attttatatc 360

atcacaagtt tcttttcttt ctctaccttt ttgtcga

397

<210> 5114

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H11

<400> 5114

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gtcaggctta ccgtgactcc ggtaataga ccagataaga cgggactccg gttagtagac 120

cagataagac gggcagcaga agctcagact atatgatcat ggtggtaaac ggtggtaggg 180

ttgcagatca gcaacgcaga ctgcaacccg caagctgcag tggcagcgtc cgaaagagat 240

gcgcggaatg tacataagta gtgcgagcgc gtggaacttt tgtctgaaga gatgattttt 300

tcgtatgtaa ttgcagaatt tgactctctt ttttcgttta tctctgctta gccagcagtt 360

gatccgtgat ctataacggt ggcagtatat ttatga 396

<210> 5115

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H4

<400> 5115

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tgggcatggt aagacaacag ttatgtaatc tctgttgcca actggtcagg tatgtgctgg 120

tttatgcctt gatgcagtat atcactttcc cgttcgtggt cagggtacga tgaaattagg 180

cagaatggca aaatcagcag catctactgt gaacacaagg cgaagagaaa agggattgct 240

tcctcgtccg gtaactcaat tgatttgttt tgcttcctgt cttttttttc tctatacatg 300

caaattatth gttctgaaac ttttccataa gaagaggtag actgtgcaac ttggttacga 360

tgatcatagaa gtaatgtttg 380

<210> 5116

<211> 409

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-010-Q1-E1-H5

<400> 5116

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acgggcctgc gccgcctccc tactccccg ccgcatcgcc ggcggcctca gctttgcacg 120

ctccgatggt gccgagattg gtcacttget agtgctggcg gctcaacctg cggaatcgcg 180

gcaccgccat ggagactccg ctgacgggtc agattgtcga gttcaacacc aagggtgtgcc 240

tttctgggct ccatttcccc ccggttcatt ttgggttttc gtgcagtget gtgaggctgt 300

tgctctacat gctggtgttg gtggacctgc tttgcagggt atgcaggagg agctgaagaa 360

gctggggctc aaggtaacc accatgaggc caacatcacg ttcctcaag 409

<210> 5117

<211> 406

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-010-Q1-E1-H7

<400> 5117

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ggtttttgca agagaacagg ggatacactt actcaggact tgaacgcgag ttatcattgg 120

ctgagttgaa cggctgctta gttgtggttc ataataattt tgacatatct atggacttgt 180

ggtttttgac agattttgag aaaggctctt gggtaagaa atacagcttg ccttcacatg 240

ttgctaggct tttttggtat ctttttctca tgttgatga tgggagaatt ttcttcagtg 300

ggatggattg tctggaagg atattaagt gtggagagca aggagaggga tttctgcaat 360

gttatgatcc aaggaatggc acatgtactg atgaagtaaa actgag 406

<210> 5118

<211> 433

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-010-Q1-E1-H9

<400> 5118

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 attacaggaa atctgaaccg actacgtaca tcaatgctcc cttggtaggg gttcttgctt 120
 acttcgttgg caacccaaac cctggccgta tcagacactg agcataagca ctttgccatg 180
 tagatagaga agagtgcagc aagctataaa taggtacaca ggaagcaaat aggtttgtgt 240
 ttggatggca ctacatgttc ataggagtgg attgcagagc gtgtgttcta ccagtaatga 300
 gagattagct ttaatgattt ctcttttgtt ttgggtttgc actgaatttt gtgtggatgt 360
 gtgcaaagtg caatttgact gcactgggtg agtcacgagt gaagaacact tgcatttttg 420
 cagaaatatc tat 433

<210> 5119
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-A1
 <400> 5119

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 gtttgtcatt tgctctagtg cttaagcacg gcggtggttt tattttgaag aaatagatga 120
 actctcatgc ttcacttata ttatttttga gagtcttaaa caacatggta atttgctttg 180
 gttataaatt tagtcctaatt atgaactttc atataaagtg cattgaatac tatgagaagt 240
 ttgattcttt atgattgttt tgagatatga agatgggtgat attagagtca tgctagtgg 300
 gtagttgtga atttgagaga tactttgtgt aaagtttgtg attccggtag catgcacgta 360
 tggatgaatc ttatgtgatg aagtcggagc atgattta 398

<210> 5120
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A10
 <400> 5120

ggtaccagtc tagaattccc gggtcgacgg gtgggaaaga aaacaactga ggacagagaa 60
 acaacttcgt tgagagcgaa ctgaggattg aacttggcaa agatgaagag gctcgagtca 120

agttgacgag aaatgcaccg gatgaaaagg gctgaggaac aacgatcgga aaaccaactg 180
 cgtgaccta aagaaaatth ttgaagggga agagaagtaa ttcaaacac ctacgtcaag 240
 attcctcacc agagcgacga aggggctgag gagtaaaaag aattcctact ctccgatata 300
 ctagactcca aaaatagtht tcttctagac tcaacaacgg ccaaactaca cgatcaatca 360
 agggggctcc taaggctcgt cgaggctctg ttaccaactt gtcatgccca atatcca 417

<210> 5121
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A11
 <400> 5121

attcccgggt cgactagggg attaagattc tctgacactc ttagttatga tggcacaaat 60
 tttgatgttt gggtaattcc catgcttaat ccctttaggg tcatggaccc aaatttagag 120
 cgaattgtag atatgggttt ttctcctcca aatgatcccc aaagattatc tctagaggat 180
 gataaaaact cttatctcaa tgctcaactt ctaatgtgct ttttgatgct ttgagcaatg 240
 tagttatatt tcaactcatg tcgttctggg atgctcatga gttgtggaca aagcttcaag 300
 ataaatatgg tgtgttcaag atttgtgggg atgattgttc tccctccacc tccggccgtg 360
 ttgccttctc aactt 375

<210> 5122
 <211> 250
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-A12
 <400> 5122

agtgagtcgt attaaaanct ataatggcac aaattttgct gtttgggtaa ttctcaggct 60
 taatcccatg ggggtcacgg caccaaattt acagcgactt gtagataggg gttatttcac 120
 atccatatga tccccaaaga ctatctcgag aggatgataa attctcgtaa ctcaatgcac 180
 aacgtccaac gcgctttctg ttgctttgca caccgtagtt agacctcaac tcatgtgaga 240

ctgggatgct

250

<210> 5123
<211> 422
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-011-Q1-E1-A2

<400> 5123

tcacgggtcaa gaattcncgg gtcgacgggc gctctatcac acataagcct cattatatct 60
tcctcaaaac atccaccata cctacctatc atggcatttc catagccatt ccgagatata 120
ttgccatgca acttccatca tcatcatata catgacttga gcattttattg tcatattgct 180
ttgcatgata gtaagatagc tagcatgatg ttttcatggc ttgtccgttt ttttgatgtc 240
attgctacgc tagatcattg cacatcccgg tacaccgccg gaggcattca tatagagtca 300
tatctttgtt ctagtatcga gttgtaatat tgagttgtaa gtannatana gtgtgatgat 360
catcattata gagcattgcc cctaaaaaaa aaaaanaana aaaaaaaaaa aaagcggccg 420
ct 422

<210> 5124
<211> 190
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A4

<400> 5124

gggccgagaa ttcccgggtc gacggggggc aaaggcgccg tgcagaaggc ttccaagggc 60
ccaaagattg gcggtggcgg cggaagcgt tgaaagttga ttacgccata gacatagagt 120
tgtgctgcct agccttggtt cctaacctac tagcatagac ctttgtcaag ttattacccc 180
gccctcctga 190

<210> 5125
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B10

<400> 5125

gtaccagtcc agaattcccg ggtcgacggg gtcgtgggga acgtgtacag cctgaggagc 60
aagtctgagt gagtgatgga tggatcatca ggatgagcta tatTTgtagg gcttattata 120
cccaggctgt attaccactt gccagaatac aatagttagc aggtacacca gttccagctg 180
agctgctgag caaagctcat catactatac atTTtcttca tctacagggt tgtttcatgg 240
gtgatggctg acatgttggt ggtgggcatt cttgtacttt tggaccagat tctttgatgt 300
atTTTTtgat cttctgctta ttcttagata tatatacatg tgtatcctgg gtctactttc 360
tgatcgaggc agtgaatcaa ccttggtttt ttctactgag gttgtgtgcc tatgggatga 420
tgaaagctgc attcagaaaa t 441

<210> 5126

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B12

<400> 5126

aattcccggg tcgacgggga ctctcaatgt tactatgtgt cgtttcctaa tgatcagtag 60
ggatgcctat tcgggggtcg attcagggtc tagtcgcttg ttgggggtct tttccatttt 120
ggcaccgtag tcgggccatg agtgattgta tgatgaatgt tatttatgta ctttgatgtg 180
acgtggcgag tgtaagccaa ctatgctatt attccctttt atattatata tgtacttggg 240
ttgtgttatg attcccgact tgcgacattg ctttcaatgc gcctatgtct ctaagtcgtg 300
cctcaacacg tgggagacat agccgcatcg agggcgttac aaccggtgac cccgaaactt 360
tcccgttggc caaaacaaca ctctctatat attattcttc acctccggac ca 412

<210> 5127

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B7

<400> 5127

aattcccggg tcgacggggg cagccagcac aaccgacagt tatgctgcgc cgaagacttc 60

ccagccagag acaccagcgg ccgaaacaac tgatgcctat gccgcgccga gaccgaggct 120
gtggaacaag aagattggcc atctccccct gccgcactaa gtccaacagt ttacccagtt 180
tctgagcgat caaccaaaaa aacttccccct ctcatctcac ttgaggagct actatgactc 240
tatgaccgga ttttataccc caattttcat tgtgtaaccg cttatccaca atgtaccact 300
tatgcaactc cgtttgagct gttattgtat tgctatgtaa agagaactca tgtacctgtc 360
atgtaagaaa aaagaaaaca ccaaaaaaca aaaaaagcg gccg 404

<210> 5128
<211> 453
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-B8
<400> 5128

gtaccggtct ggaattcccc ggccgacggg caaacagtgg cttaatgaaa ttgacaggta 60
tgctagttaa aatgtgaaca agcttttggg ggggaacaag tgcgatctag ctgagagcag 120
agtggtttct tacgaggctg gcaaggccct tgccgatgag attgggatac cattcctgga 180
aaccagtgcc aaggatgcaa caaatgtgga gaaggcattt atgaccatgg ctgcagagat 240
aaagaacagg atggcaagcc aaccggctgg aaatgccagc aagcctgcca ccgtgcaaatt 300
gcgggggtcag cctgttgccc agcaaaacgg atgctgctcg tcttgatcaa cactcaagat 360
cacagtagtg ttcttgcaaa actcagttgg ttgttcttcc cctgtaaatt aagtgtacta 420
ctatcatgcc gtctgttgga agaagtgtca tgc 453

<210> 5129
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-B9
<400> 5129

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gggcgaggat cgccacctac ctgccgggca ggacgggaaa cgacgtcaag aacttctgga 120
gcacccgcca gaagcggtc gccaggctgc tgccgcggcc tctccgcgcc cggcccagca 180

agaccaggag cagcaacacc aaagcgcccg catcctctct cgagtccgcc atgggttctt 240
gccatgatca tgttccgtcc gtgggcaact cctccggcgg ccaaagcttc ccggtgcac 300
cgcccatgga gcaccaggac accgcgcgaa tctcgcatga tcagatgtgc tctggattcc 360
tcagtttcga gccattgccg ctgcaggcag cagcaccg 398

<210> 5130
<211> 228
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-C10
<400> 5130

aattccccggg tcgacgggat tcagcaacac atatacacac tgtatgggtct ctcgggatga 60
tatgtcgcca ggtctccaca aagcaaaata ttgtaacatg taccctcacg tatacgaggg 120
cacttattca aacagctact cctatgtaag cacagtataa cttggggtct gctcaagtgt 180
tgtgatatac tattcataaa taaataaata tactatacag ttgttcag 228

<210> 5131
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-C11
<400> 5131

attccccgggt cgacggggcca actgattttc tcctcttgca gttgggttcg gtcgatgaag 60
actccaccgg ctgcctctgg caggacaccc tcacaaatgg caccttgtag atgctcgatc 120
cttcaatctc tgggtggatgc tccatctggg attgatactc ccatcaccgc tccctcacga 180
tcggattcgg tgaatgtggt tgctccatgg ccagaggag cagctctatg tactccggcg 240
cgaectccctc caggtgtatc gccgcctttt cgctctgttg cagatatttc gccatggatg 300
tcgccgtcgc cgctagttgg tccttggttg caaaccaaga ctgtatctcc aacatcctag 360
ctagcttcac agggtcgcgc tccgcgatcc tcatgtatcc gttg 404

<210> 5132
<211> 285

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C12
 <400> 5132
 tgctacaccc tatagtgagt cgtattagtt gggttcggtc gatgaatact ccaccggttc 60
 gctctggcat gacaccctca cacatggcac cttgttacat gctcgatact tcaatctctg 120
 gtgggtgctc aatctgggac tgatactcct atcatcgctc tcgtcacgat aggattcgtg 180
 atgaatgtgt tcgctccatg tttccagtgg atcagtctct atgtactccg gcgttactcc 240
 ctcgatctgt attgacgcct ctttcaactct gtttgacat atttc 285

<210> 5133
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C2
 <400> 5133
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 gtaggacacg tagcaagaca ggtacaaatg gatcagatct caagggttgt cgacgaactt 120
 gtcgttctac aagtgttaact ctacggcatc atatctgctg tggtaagggt gttaaaagat 180
 tactagcatc acactaattc agatattatg aacaggcctg tatgtatgga ttgtgatcga 240
 ctacacctta aggttgtatc aatatgtgat gactgagact tccctgataa cgtgtgtacg 300
 ttctttatgg aaacatctgc aatgtctagc catgaacgtt gagactgcct tcaactgaggt 360
 tctgactcag atctatcgtg tagtcagcac gaaagcc 397

<210> 5134
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C3
 <400> 5134
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 ccaactggatg tggttttgag ggatttttgc actgggggtt gtaagggtgct atgccgcgct 120

gggtttggga tttgaaataa aacgaacgga gatgtgccac gctcttaatc acaaaattaa 180
ctattactga tataacaaag ataactcata atgaaaaaaa cctacactaa aaagcaagca 240
tcaccacaa gtataacctt gtcataaact ggaaatgaaa ataataacca ttagggggcca 300
cactaagtgc tttcattcac cataccatca aaagtaaata actcacctg aatcaggccc 360
tttaagtcgc attcaagggc tgcattttaa aaa 393

<210> 5135
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-C6

<400> 5135

aggtaccggt caagaattcc cgggtcgacg ggttgtctcc tcgagtgttg gttggtcaca 60
gctttggtgg aaaagggtttt tcctgttccct ttttcatctt cttatctgac atgctatgca 120
cttcataac tgtccagcta cctaattgtg cttgcagtgg ctttgagtat ggtagatcaa 180
gctgcaaaac cacttgcccc tcctgtcagg gtaagcttaa ctaccttttc cgtgttatat 240
gagtgtggca ataattggaat gccaaactatt attaatata ttttgagcta aatttcttat 300
gtgtattctg ttccttgaag gtatgggttc ttgatgctac tcctggcaaa gttcgttctg 360
ggctagatgg cgaagatcat cccgttgaac ttattgattt cctcagaaga atgcctgtgc 420
aggttggcct tttagaacta tctatgc 447

<210> 5136
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-C8

<400> 5136

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caatcgtcga atgctttggg atgccccggt tggaacccta atcgttcttc atcaacatcc 180
tatctgtcac tatcggttga tcctaagtta tgcttctca gatgatgttt gctattcgta 240

gctctcattt tatggtgctt tgcattgctgt ttgtatagga taccaaaact ctgaaattat 300
 taaatgttag cgaatcttca catatatgca tagctatgcg ataactcatt gatcttcacc 360
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<210> 5137
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C9
 <400> 5137

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 taggtgtgct cgatgtgctt cacgtatatc gtttgagcaa tatacatttt ctcgaggtgc 120
 ttcacctaga tccttagaga gttatagtta tgctcgacgt gcttcaatta catcctctag 180
 agcatggtgg tggatccttt tgcagaaaac agtgatcgct caggcttcac ttaaattatt 240
 tagagagact cataggatca tgggtagatg cttaataata atatgcttgg tattcaagat 300
 ttgtgaaact ttcttttgag tgtgttgaat actaggagaa acgattggga tcatgataaa 360
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<210> 5138
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-D10
 <400> 5138

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 ttgcaataac ttagtttcgt tgcaataaat actaactttg ttgcaatata ggccctcatat 120
 tgcaacaagc tgtatcggca tagcaatatg gtaccagtat tgcgacaaac aaattccggtt 180
 gtgcgagggc cgtcatttcg ttgtaataga gactaggtat ttcaacagaa taactattcg 240
 tggcaatatt cagaaagata ttgcaacatc gatgtgatgt tgcattagtt acaaattattg 300
 ttgcaaaaaa gtggctaact atagcaacaa aatgcatagg cgttgcaata tgatagcgat 360
 attgcaacca acaaattcca ttgcgcgaag catccgtttt g 401

<210> 5139
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-D5
 <400> 5139

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 gaagtggctg aagccccgtg ggcataatctt catcaggagg tcttgcttcc accagtctgg 120
 ggattccaag aggaaagtga acccgacgca ctaccgggag ccaagggtttt acaccaaggt 180
 gttaaggaa tgccactcct atgaccaaga tgggaattcc tttgagcttt ctctggtaac 240
 ttccaagtgc attggagctt atgtgaagag caagaagaac cagaaccaga tatgttggct 300
 atgggagaag gtcaagtgc cagaagacaa aggctttcag agattcctgg acaatgtgca 360
 gtacaaatcc actggaatcc tgcgttatga gcgcgtgttt ggggaggggt atgtcagcac 420
 cggg 424

<210> 5140
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-D6
 <400> 5140

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 ttttccacgg aaattttcaa aactcaaagt agtacatttt tgtttgcaa gttttagaaa 120
 gtgggtagac cgaaatcagg gatcactcta ctacttctc tgttcacttt tataaggcct 180
 tgtagacatt tcagacagca tgcaaagcag gtcagttgtt tgaaacgaat tataaaagtg 240
 aacgtaggga gcggtgactg tacatctctc agtgggttga aacatggaag agcggtagcg 300
 gcaagcttta accataagta gccacactg aggcttgatt tcccagcaca aaagttgctc 360
 gcaacagaga actgggcggg atccanagac ggagcacatg atgaagagtg aacaaaactg 420
 gcagcggaga gtgggaggag aggagaggag agg 453

<210> 5141
 <211> 413
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E10

 <400> 5141

aattcccgcc cgcacggggc tcttcaagca cttgaaccgc cttggatcac ggcgagacag 60
 atggaagcag gacgaagagc aataacacga tatgcacgtc gtggtggaaa aatatgggta 120
 cgtatatttc ccgacaaacc ggttacacta agaccactg aaacacgtat gggctcggga 180
 aaggggtccc ccgaatattg ggtatccgtt gttaaactg gtcgtatact ttatgaaatg 240
 gggggagtat ctgaaactgt agctagagca gctatctcca tagctgccag taaaatgccc 300
 atacgaagtc aattttattcg attagagata tagaacccta aaaggggtat ggaagataaa 360
 aaaaaaatg cccggttttt ctttctggaa agacaatatt tctttcatcc ttt 413

<210> 5142
 <211> 380
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-E5

 <400> 5142

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 gccagatcaa ctacgaggag ttcgttaagg tcatgatggc caagtgatcc cgccgatgtc 120
 ccggtggacg gtggtattat tattttaccg gggaggagga aattgtgcta tgcattattag 180
 tagtaaggaa tgcggctctc gtttccttgt ctttgcccca aaccagaaga agcgtactag 240
 tagacgtagt tgctgaagag cattcatgga atcctcctcc cctgctgcta cttgtctct 300
 ctcccggtg tcatgaaac atctttcttt ctgtgtggca aaaaaaaaaa anaaaaaaaaa 360
 aaaaaaaaaa cggccgctct 380

<210> 5143
 <211> 302
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-E6

<400> 5143

ggtagcagtc aggaattccc gggccgacgg gggattaatc aaataatatt atttctaaca 60
gttgggtctga aagttactct tcatagcaag tgccagaatt tttttccttt tctgttccca 120
ccgggtgtga aactatcttg tagctgtaga tatattgatt atggaaggct gaagttcgca 180
attgatgcaa gaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aagaaacaca aaaagaataa gctaaaagat taactctaag gtaatcaaaa 300
at 302

<210> 5144

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-E7

<400> 5144

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catgtgttgc ttgattcttt tctgccttat ggctacatgt agtgagggtt catctaccga 180
aaacatgtgc tatcacaacc attggaataa atgccatcct gatcaaaatg gaatgtgtcg 240
agatagttgt gtgaaagatg gatgggatga tggacaatgc cggaacaggt ttaaaagact 300
aaagggtgcc aagtgcgaat gttaccctaa gacttgtgat cattanggag gcaacatgcy 360
actttcttct accaagttac tactatttat aaatttacat cggttttaat gattgacgtc 420
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<210> 5145

<211> 247

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-E8

<400> 5145

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 gccaatgccca cctatgttgg ctaccagcac ccagagccat gcatctagac gtacggccaa 120
 ttgggtttcc tttttcctct tctaaagtta gcgttttcta aacgttttgt tggttcctgg 180
 tgcttaaata taggacctg aaataattgg atttaattca aaataagtca attctaatac 240
 acacgaa 247

<210> 5146
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F1
 <400> 5146

gggtcgacgg gccggactgc gagaaagaat tcgagaatga gctggatttg cttggcagga 60
 tcaggcaccc caacatagtg tccctcctgg gcttctgcgt ccatggtggc aatcactaca 120
 ttgtttatga gtcctatggag aagggatcat tggagacaca actgcatggg ccttcacatg 180
 gatcggccat gagctggcac gtccggatga agatcgcgct cgacacggcc aggggattag 240
 agtatcttca tgagcactgc aatccatcgg tcatccatag ggatctgaaa tcgtctaata 300
 tactcttggg ttccagacatc aatgctaaga ttgcagattt tggccttgct gtgacaagtg 360
 ggaatcttga caaagggaac ctgaagatct ctgggaactt gggatatgta gctcctgagt 420
 actta 425

<210> 5147
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F4
 <400> 5147

cgggtcgacc ggggtccta aggtcgggga aggtctctgat taccaacttg taacgcctc 60
 gatgcggcta tagtcccat gtgtcgaggc acgacttaga ggcataaccg cattgaaagc 120
 aatgtcgcaa gttaggcaat cttcacaaca tcccatgtaa tatagataat aaaaggggag 180
 atacatagtt ggcttacact cgccacgtca atcaaagtac ataaatagca ttacaacatt 240

caaacactca tggcccgact atggcgccaa aatgaaagat aaacccaaca tgcgacacgg 300
 tcccgatcac cccaactggg caccactact gatcatcagg gaaagacaca tagtaacggc 360
 gtgagtcctc ctggaacttc cacttgagct caagggcgtc atctggaacg gaatcatcag 420
 gccctgcatc tggtttgg 438

<210> 5148
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F5
 <400> 5148

gtaccagtca agaattcccc ggccgacggg tgcgaccaat agtgatggta ttgaactacg 60
 gtcacatcta tttaggaatg atgtaagata tttactatct gtcctcagtg catatcttgc 120
 atacataatt tttttgctaa actttcattg ctaagtgtat taattaagta ctatacggcg 180
 ttcttcaaca ggactgccga tgacagttgt gcctcagggg atcgagacta aaggtcagat 240
 gtcaattgtt agcttacggc caagatatcc tgcattgcac atgaatgcat tcaggatttc 300
 tagaagcgat gaatgcttaa tagtgaaaga ttggaggaaa attgttaatg atcgagaga 360
 agtactacgg ggcagcaatg agaagcgcaa cccacgatta ggagacaggt tcactctgcat 420
 gccccagtat gatcaat 437

<210> 5149
 <211> 188
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F7
 <400> 5149

gggtaccagtc tagaattccc gggtcgacgg ggctatctag ttataaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tacaacaaaa aaataacaac aagaaagaca 120
 aaccggccgc tcaaacgggt ccaagcctac ctactcatgc atgtaacgct ctaccgcctc 180
 aaaaggggt 188

<210> 5150

<211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-F8

 <400> 5150

aattccccggg ccgacggggg tcagaagaca actaaagagg gacaactcaa aggaacatac 60
 gggttttctga gttgtggatg cataagttag tatgtcgaac aagttcaaca tatttcttcc 120
 agataaccca tgctaaagag gaaggactgg cagattcaca atatagaatg gagaactcat 180
 cgagagcact tttgttgtga tctttcggct caaaagaact tctgccaaga atggttcatg 240
 gtatttggca gaatgaaata ccacggacct cgaggactat cgcaacagtt actaataacc 300
 taaaggaact agcagatact accatcaaga agtacgtaga gtgaatctcg ggttcaaaaa 360
 ccaatgagta gaata 375

<210> 5151
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-F9

 <400> 5151

gtaccagtcc agaattcccc ggtcgacggg atatactgta tagctttgga tccaaagaga 60
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 taattcacag atatactgta tagctttgtc cgactagaag ctgaagtgta atgttaagta 180
 tcgaatgact gaattagaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggggcccc caaagggttt aaaccttaat 360
 ttcccttgaa gggaaattta aacccctca aaagggcccc caaaattcaa ttcaagg 417

<210> 5152
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-G1

<400> 5152

gggtcgaccc tgatataaat actttggttg aatctgatcc tttctatggc tatgaatctg 60
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agaaaactcg ctactattat atccttaa at ttttccatt ctcatataag ggtgatgcta 180
agatattttt tgattctctt gatcctgggt gtgtgcgtag tcccaggat ttgatttatt 240
atgtctctgc taaatatttc cctactcaga agaaacaagc tgetttaagg gacatatatg 300
attttggtgca aattgaagaa gagagtctcc cacaatcttg ggggaggctt ctccaattac 360
ttaatgcttt gcttgatcat cctctcaaga aaaatgaaat acttgatata ttttataatg 420
gactaaccga tgc 433

<210> 5153

<211> 407

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-G11

<400> 5153

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gacacgagtg attcaaagaa atagtctata atttgacata aagacattaa tactcaggca 120
tcccaacaaa caatcctgcc tttcaaaata tcaatgctaa agatcggttat ccatacaaaa 180
tcgtatagtt gtaacacccg gataattaag ctactgtaat cccctgttaa tgatgccagg 240
tcacgcttt tactgttgct agaaatcacg ttcatccaat atcagttcaa attcaaattt 300
aaaaacaaag taaaaattta tagttttcaa aatgtcgaaa ctaaaaaatg caaaccatga 360
caaataatcc agaggtaata atggtgaaga aaccagattt tttaata 407

<210> 5154

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-G4

<400> 5154

gggtcgaccg gggtgcataa ttattagact actcattgag cttcacttat atcttttga 60

gtagtttgtc atttgcctca atgcttcact tatatcgttt tagagcatga cgggtggtttt 120
 attttgaaga aatagatgaa ctcttgtgct tcacttatat tattttgaga gtcttttagaa 180
 cagcatggta attttctttg gttatgaaac tagtccta atgatgggca tccaagatgg 240
 gtataataaa aactttcata taaagtgc atgaatactat gagaagtttg atacttgatg 300
 attgttttga gatatgaaga tggatgatt agagtcacgc tagttgagta gttgtgtatt 360
 tgagaaatac tttgtgtaaa gttgtgatt cccatagcat gcatgtatgg tgaaccatta 420
 tgtgatgaa 429

<210> 5155
 <211> 181
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G7
 <400> 5155

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 ggcacctgaa tgaatgaaat aaacgaaata acgctcttgt tcaaccgtca ggctccggtt 120
 cagtactgca ccaagctgtt attttttgcc tttttgaaaa gaagcacgtg tcgctgtgtt 180
 t 181

<210> 5156
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G8
 <400> 5156

attcccgggc cgacgggagc acaaacagaa ctacaccgga cagggtgacg acttgatcta 60
 ccactccaag gggcacgctc tgaaccagg gcaaaggac tggacaagg accagccttg 120
 ggaaccaaag aaagaagagg ccacctgatc tgtatgaatg gtacctgata atcctcttct 180
 atgtttcgca tttggtttgg tgtcgcgat ctaaaaccgc cagtcacctt gggttcatgg 240
 actggacctg aataatgtac tctatctgat actgaatacc tgccactgaa caattttaat 300
 ctctgtggat gtggcaattg agaaactggc gattcggctg tcggtgtttg cattgaagag 360

tttctttttt ctactgatgt c

381

<210> 5157
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H6

<400> 5157

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aaccagagag tttgcaagcc catctccgtg agactgagat cccattggtg agatcaaact 120
gattaggggtt tctggtagtg gctatgtcaa gtgaactcgg tggctccgga tagatcaaact 180
tggtagggct gagtttgaca tttggtttgg gacatatgtg gatatgagaa agtgggttag 240
ggctttggag catatcacta agcactttga gcaagcaagc cattaagaaa cacctcatcc 300
ctttttaata gtattgactt tcctaaggac tcaatgtgat cttgaatcac taaaatgaaa 360
acgtagagtc ttgagctttt gagcttttgc caatcctttg ttcttagcat cttgtaaggg 420
ttccacatcc tcttgt 436

<210> 5158
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H7

<400> 5158

gtaccagtct ggaattcccc ggccgacggg ttgctcaagc actctgacaa ggagagcctt 60
gcgagaaaga acaaatcagg attcaatgcc ctgcacatca ctgcaaagga aggccacgga 120
gaccctactt gtgccattgt gtgttcctcc acttctggcc tcctccatta ccagtgacta 180
acactacaat aaatatgcaa ataattagtt ttgctacact atagtagcaa caatccttgc 240
gtgacaatta ttgtaccgat tacatcatag caaatcatag caaagggaca atatgagggg 300
ccttcaaact gcagtttgag agacaatctg tttgtcctat ggaggtgctc aatggactta 360
acatcagaat agcctggctt tcagaagaaa agatgacagc tttattttgt tgttgtagtg 420
tgctattcgc gaaac 435

<210> 5159
 <211> 371
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H9

<400> 5159

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 aaaaaaaaaat aaattcagaa aaaaataaaa atacagaaga agaaaaaatt taaaaaaga 120
 aataaatgag aaaaaataaa aaaatataaa taaaaaaaat agggggcccc cagaggttta 180
 aattttatTT tgtctttctt gcaactttaa gacccttaat cgttttccct aaaatataat 240
 ccttggggtg tttttttaaa acttctaaag gggaaaaccc ctggttttac ccaatttaac 300
 cccttttgaa aaaaccccgT tttcactaat gtggttttgt ctgaatgggc ccacatttta 360
 ccccttcca a 371

<210> 5160
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C5

<400> 5160

attcccggtt cgacgggaag gcctatgttg gatgatatta tctcacctga acaaagtgcc 60
 tttgtttctg gaagaatgat aacgaacaat gcactaattg cttttgagtg cattcattat 120
 atcaagcaag aaaaagatcc aacaaaaagc ttatgtgcat aaaaactaga cctgtcaaaa 180
 gcatatgatc gggtagacta gaacttcttg aggcaagtga tgcaaaagct ggggttttga 240
 tcatcgatgg attgactgga ttatgacttg tgtcacatcg gtgagatgtt cggtaagatt 300
 taatggaacc ctcttgatt catttgacc gtcgtgtggc ctacggcaag gtgatccact 360
 ctcctcttct gtgtttctgt ttgttgctga cgggctttct caatcctacg acaacgtgtg 420
 gatgt 425

<210> 5161
 <211> 114

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-D10
 <400> 5161
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 cgaacccttg catgcaactt acttgccctc caaaattctc gcttagattc agtt 114

<210> 5162
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-D5
 <400> 5162
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 taacttgga cgcgggtgct tcaaagtgct aacaagactt ggaactccag caaaggaaga 120
 ttgtacatat gtgactttgt ttaggcagtg tagggagggtg ctaggcacaa ggtttattct 180
 gtgcgacca gtgtatctat gttgatatgt taggggtgtgc ttatccacac tgcactagtt 240
 ggtagccgtg tgcaaaatat gtatagtacc agtggtttgg cttgtatgtg tgatacatgt 300
 gtgtatcttg actgcttggt aatgtaatgg cttgggttgc tgctt 345

<210> 5163
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-E5
 <400> 5163
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 cgattctgca tcaattttct cactgcatct tggctgtaaa cggactgtag catcgattgt 120
 tggagagaca ggatcttcaa agaactcctt tgctgaaact gtaattatgc agtcattctc 180
 agcactcgaa ctatccactt tgataaaagc tccagattct tgctaatct gtttgataat 240
 accacctctt tttccaatta cacctccgac attcgccgca gcacaaagca gacgcaggct 300

aaactctttt gcagagctca cctccctccg ttgttggtat atagaaggcc aatctccac 360
catatcacct ttgtatcgtc cataaggact aaccatagga gtaatcccta caactgggtgc 420
agtagaggaa ctnacaaggc gggatcc 447

<210> 5164
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-E6
<400> 5164

aattcgcggg tcgacgggga gaaagaaatt agtgcaaaca aatctcacat tagttccggt 60
aaccgaccat gcacgccgat cagctattac cggcgggtcg cgccgcgggtg gccatggctt 120
gcctgctcat cgccggcccg gccgacggcc tcgaggagta cgcccccttct gccgcgggtga 180
gcctggagat tgagccgctg tccatgaacc agaaccccg ggagttcctc ccgcgaccgg 240
aggtgatgtc gctgccgacc gatctgctct caaggccaga cgtgggtggc gacggtgagg 300
ggtagtccc gcatgtggag gttgtgccag aggtggtgct gcagcccgga gacccctcg 360
ccgaggctct cggcgggtggc tcgtatgcat aggagccatc gacagagccg gtcacgtca 420
t 421

<210> 5165
<211> 412
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-F5
<400> 5165

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gactgactac aatggtaggt tgcgtacgtc cttatacat cactactagg tgcttatgtt 120
acttcgttct gtccggttat tagcactcat gtttactttc gcactgagaa ctgaaaaact 180
gaatgtaaatt ttagtatgga tgccgtgtat gtggaccttg tgttgtaatt ccgtttaaag 240
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaggaa aaaaagaaaa aaaaataacc aacacataaa ggggtctccc aataggttca 360

aagcttttagt ccacggacgg gcaacttcat accgctgcta ggatgtaacc aa 412

<210> 5166
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-F7
 <400> 5166

gtaccgatct agaattcccg ggtcgacggg ccatgccaag tttcatgatt ttctggtgag 60
 ttttgattt gcggatattt ccaaactgag attgcaatgt ttcgagccag gacgccgaga 120
 cggttgaatt catcctcatt ccttccgtgg gacctaaca tgcattccaa ggacacatgt 180
 acatttttct agccattttg gtgcactaaa gcatgtattt gtagtttgta tttgaattat 240
 ggacattcct ataaaactcg gctaataaaa caataaggtc aaatgaaccc tgaataattt 300
 caaagttcag cgtgaatctc ctgttgctcc atgttacgtg tagaagaaaa tacaaggcta 360
 aaagagggag cgattatcct ttcaccaca aggggacacg tttccctatc gaaaccacga 420
 cggttcttgt gacaaggctc cggttt 446

<210> 5167
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-G1
 <400> 5167

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 caggacagaa actttggctg tagtgcgca ttttacatgt tttactggaa tgtcaaacgg 180
 ttctgattct ttttgactg tctttccata caaattgttt atttttccaa attttggcag 240
 aattttcaag taacataagt atggttaatg ttcagattgt tacagactgt tctgttttag 300
 acagattctg ttattgatgc atagtttgct tgttttgatg aaactatcaa tttatatcag 360
 tgtattaagc catgaaaaat ttatactaca gtagacatga tgcaaaaaca aaatatgaat 420
 tggtttgcaa cagtacttag ag 442

<210> 5168
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-G5

 <400> 5168

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gagcactata tgcttagctt aatggcttta aagaaagcgc tgccagggag acaacccgga  120
agtttttagag agtcatttat ttctgttggtg tgcttttgta aagtttaaaa acaataataa  180
cgtgccaagg tttgccttta ggatgttttag attgcttggtt ggtttgtgcg gtgcggaaac  240
agaaactttg gctgtagtgc gtgattttac attttttact gaaacgtcaa acggttttaa  300
atttctttgc actgtcttta tatacaaatt gtttatcttt cctaattgtt tcataatttt  360
tggagtagca gaagtatggt gaatgttttag attactatag actgtcctgt ttaagacaga  420
ttctgttttt aatgcatagt ttgc                                           444
  
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<210> 5169
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-G7

 <400> 5169

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ctgaagttat ttataatggt tgggttcgag gatgaagaca aggtgacaaa ctatataagg  120
cttgatcatg aacgtgccgt gggcttgaaa agaatcgagt tgcattgtag aagcccatgc  180
aatgggtgcg atgccatcga ccttgagtcc ctgagaagat cccaggcgga tgaagctagc  240
aggcatcgga ttaaggagca actcagacat ggatcttcct cgtccgtgga gatagtaatc  300
tgctgatgga tatggtgaag gaatgataaa tttcataaag ctgctcgagc gatgactgta  360
cgaagtgcag gcagtcgtaa ttttaagttc agttattgat agtctggatg aatgttttgt  420
ttttgtccaa tttacggagt aatta                                           445
  
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<210> 5170
 <211> 445
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H3

<400> 5170

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aacaccgaca ctggcgagct catcatgcac ctggagtggg ttaacctccc ccagggcatg 120
tcgcggtgat ttgatttgat ttgcagaggg aggccagcta ttgtctgcct tttgtgatcg 180
taatgttgct tcctctatat atgagctatg aaaataatta agcgtatgcct atctcattct 240
ttacataaca cccaccgtaa tgatttgtgg atctcaccag gatgggtgct atataatatg 300
agcaacgtcg tggtagatc cgcagatcat cacagtgggt gctacgtaag gcatgtgata 360
gacttatgct gctgggggta atgcttgctt tcagttttgg ttctgcatat gttgtatggc 420
tattttaata caaaaaggta tttttt 445
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<210> 5171
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-H5

<400> 5171

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gcattattat actaacggat cttaccgtgc tttctgttga gttttgtgtg gatgaagtga 180
tcaaggatcg aggaggtctc gatatgagga gaaggaggag aggcaagagc tcaagcttgg 240
ggatgccccaa ggcaccccaa gtaaataatc aaggagactc aagcgtctaa gcttggggat 300
gccgcggaag gcatcccatc tttcgtcaag aagtatcgat atgttttctg cttcgtttcg 360
ttcatgtgat atgtgtaa atctggagcat cttttgtgct taattttcat ttttccttta 420
tgcaacatga tggatatgag 439
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<210> 5172

<211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-H7

 <400> 5172

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 caaggaggac gcgaaggaaa gggctgaaca gttttcgaag ccagcactaa ccttagaaga 120
 attgacaagt tgggtcaaaag ataaacttgc tccatacaag attccgacga gattgcacgt 180
 atgggactct cttcctcgga atgccatggg aaagggttaac aagaaggagc ttaagaaatt 240
 attagagggtg tagccatatt tacattgatg tacctatttt tcaatcgac ccttctgcga 300
 ggcagacata tagtgggtgc agctaataat tttgttctgt tcgacaataa tgataattta 360
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 gagaatgtga aataactaga 440

<210> 5173
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-A1

 <400> 5173

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 ttttaccgtt gcacatgatg attttgatga atgtaatatg catgttcttg ctgctcctac 120
 ttgcaattat tatgagagag gaactacatc tccacctctc tatgtttcca acacgatgaa 180
 attgcaagaa actgcttatg ctatgtactg gccattactt gatgogcacg aattgttctt 240
 gtatgacatg ctgatgcata ggaagagagt tagacttcgt cattgcttga tatatgttgc 300
 tttgtgctca ctactaaatg ccaaatacatt gttaattaaa attggctttg atataccttg 360
 ggatccgggt ggatccatta cttgagcatt ttatgcctag cttaatggct ttaaagaagt 420
 gctgccaaagg gagacaaccc g 441

<210> 5174
 <211> 375
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A10

<400> 5174

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aaaaagggtgg gccccgaac cggaaccggc ccaaaccaat tcgccaccgc caacggcggc  120
aacctcaaaa ttccgtcggc ccgccggctg cctgtcatcg tcgccccgtg tcccgtgtcg  180
tcgatctaaa taagagagtc gtgtgtcgtg tcgtgtcatc cccatgtccg tccgatgaga  240
tctccgtggt tgggttagga gggtttagg tggactcttt tggccgctgg atctgtgtcc  300
ggcggccatg gttatcttcc tgtgtctgct gctatcttac tgtttgaatg agatgaactc  360
cgctatgaat tatcc                                     375
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<210> 5175

<211> 434

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-013-Q1-E1-A12

<400> 5175

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ccaaattggt atggtgctgc tagaaggang gcgcgagaag gccggccggg ggccttttgc  120
ccatggccgg gcaagatgga agggatttcc ttcttaattc ttgcttgatt agattgatac  180
atctcctctc tttatataga gaggtttact tgactcccaa gcaaggctta cttgatccct  240
aagaaagcga cccttatctc taattaacct taagactaac gggctatacc gccagcccag  300
gccattaggc ccattacgta ctctaacaca gtcataagat tgtaactagt aagattttta  360
aaacatcaaa actactgttc tttgtagttg ttaaaaacac gacatccttc aagttcatta  420
acaatatatg acaa                                     434
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<210> 5176

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A2

<400> 5176

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gacgagggca agggcccgat ctccctcatg ttcccaatct tcagcgcggc aaccatcgac 120
cagatcttca ccacctcaga tacactgtct ctcccccatg ggcccgtca tgcattggtga 180
agacccccctg ctccgaggtg gtgccgtggt caagaggaga agcacagaat atggatggag 240
gatgggggaat acatgcagaa ggcggaagct ccatgctcag ctcagctctc aactacactg 300
ctctaagact acttgggtgag aatgtcgatg atgagcaaga tatgtccgtg ccaaaaacaa 360
ggaaatggat acatgaccat ggtggtgcaa tgatgataaa actggaagca agatgcttgg 420
atTTTTTgac aggtcaggtg taaaccctac cccc 454

<210> 5177

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A3

<400> 5177

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agcagtcata ggaaactata cttacacgtt gacagttaca agaacctaca tacatgttcg 120
ttcaccacgc ttgatgttgc tcttgtgtat tgctgctgct gcccatcttt tttctcatcc 180
cacacatgca cgcaactggat gttatgcac ttatcgctt ggctatcgca atcctgaatt 240
ctgcagtaaa taacttaaaa aagattcatc acaagcggcc tgctcaacag gatcctagct 300
tacgtatgct tgcattcgac gtcatacttc ttctagattg tcaccttaat tcaatt 356

<210> 5178

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A4

<400> 5178

taccggtcca gcattccccg gtcgacggga ctgttcagtt tttgacagat tctgttttca 60
ttgtgttgat tgcttatctt gatgaatcta tggctactga aatagtttat gatccataga 120

taagttggaa tacaataggt ttaataccaa tacaataaaa taatgagttc attacagtac 180
 cttgaagtgg tcttttcttt tcttccgcta atggagctta cgagttttct gttgagtttt 240
 gtgttggtga gttttcaagt tttgggtaaa gattctatgg actatggaat gaggagtgga 300
 aaagagccta atcttgggga taccoaatgc accccaaggt aatattcaag gacaaccaag 360
 agcctaattct tggggatgcc ccggaaggca tcccctcctt cgtcct 406

<210> 5179
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A5
 <400> 5179

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 ccgagtggaa caactcagtg gcaccgagat tgcagaatcg caagcggttg ctccaactca 180
 gtgtgaccga agtgttcaaa tcggttgac cgagatgaaa acctagatca acttagtgaa 240
 ctcggtttga acgaaatgga tgtctcggtc agaccgaaat gcacaaagag gttttggaag 300
 ttttaagtcta tgaagaatca gggactccga gtgctcctca cacagagtgg ttcgaatctg 360
 acttgatcaa actttgtgat gtagcatgaa tagagtttga gacgagaaaa gcatagat 418

<210> 5180
 <211> 295
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A6
 <400> 5180

gtaccgggtcc agaattcccg ggctcgacggg ggggttcaac gcggtgccgt acgtggtggc 60
 gctcttcagc tgcattgctg ggatcttcta cgcgtgggtc aagaccaact ccagcccgtc 120
 gctcaccatc aacgccttcg gctgcgtcgt cgagggcttc tacatcctgc tctacgtggt 180
 gtacgcgccc aaggccgcca agcaacgcgc cctcgcttcc ctccttctcc tccaagttgc 240
 cgcctttgcc ctcaatggct ccgttaacgt tctcctcgtg cccaaccca accgc 295

<210> 5181
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-A7

 <400> 5181

taccggtcca gaattcacgg gtcgacatat ctaagacaaa gaagatcgcc ctaaggacat 60
 tgatcgacca ctctgtcgtg gaaagttttg gtgccggcgg caagacgtgc atcctcacga 120
 ggggtctacc gaggaatgcc gtcggggaca atgcacacct gttcgtcgtc aacaatggcg 180
 agtcggacat caagctcacc aacctgcgtg catgggagat gaagaccccc acgatgaaca 240
 agcgtctggg gcagtagcaa cagcccggcc cggtagatcg aggattcaga gtagcctaga 300
 ctagccatag ctagctagct tgttgattta gttgagatta attaggagag gtccaggttt 360
 agtgatgagt tgttagaaag gaccggaaat gatccatttt gtttcagaac cttttccaaa 420
 tggc 424

<210> 5182
 <211> 437
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-A8

 <400> 5182

gccggcagta ccggtccaga attccccgggt cgacggggca ataagcacat aacacaagcg 60
 aagaaaaagt gaagactttc tatcaacaac tattataatg atgcctttga tgtagaatat 120
 cactgcagtt acatttgaac aaatgaaatc cctttttaac agatgagttt tcgtccgaaa 180
 ccctgatact tccaaagaga ttgtctgttt tgtatccagt ttttgtcata accctttcaa 240
 ctttttagca catgctatat gggttaaatg atgatccat gccaaactttc aaccttttca 300
 gagttcattt gtattgcttt tcaattaaag ggtcattgag ctcaaataat gaactaatac 360
 caaaaagaat gaactaatag caaaaagaat gaagtgaaag ccaaaaagaat gaactaatag 420
 caaaaacaaa gaactaa 437

<210> 5183
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-B1

 <400> 5183

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gatgcacttg atgatgatct cgttatgcct attgcttggt gtgatgatta tgattgggaa  120
gataatgata cttcttatga tcttgaaaat ctttttggca cttgcttgga atatgacaat  180
tgctatacta ttggtgctat ccatactact aatgatgaga gtgattatgc ttatgatatg  240
aaaaggccca agcttgggga tgctatgttt gaagaatatg atatttttga gaatatattt  300
gctgcaatta atgtttgtcc caagcttggg gatgctacgt ttaatgaaga tgatattttt  360
agcccccccc cccaaagttt tgatatgcaa agttgttatg atgatag                    407
  
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<210> 5184
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-B10

 <400> 5184

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ttacacaatt atttagatac tcattgatct tcaattatat cttttggagt agtttgtcgt  120
ttgctctagt gcttcactta tatcttttta gagcacgacg gtgggttttat tttgtagaaa  180
ttattgaact ctcatgcttc aattatatta ttttgagagt cctaaaaagc atggtaattt  240
gaatgaaaac tatcatagga ggtgaattgg atgccatgat caatttgata cttgataatt  300
gttttgagat atggaggtag tgatattaaa gtcatgctag ttgggtgatt atgaatttaa  360
agaatgcttg tgtttaagtt agcaagtcnc gtagcatgca cg                        402
  
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<210> 5185
 <211> 381
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B12

<400> 5185

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agcattctaa acgacgtcac caattttccaa catgtttctga catcatttgt tgtttttcag 120
tcattttacct aattgttttag agagctaaat gaccatgaaa ttgaaaatca ctagaaaatg 180
aactgtgaaa atgttgaaac ttggcatggg atcatcattt caccgcata gcatgtgcga 240
aagagtagag agggtcacgg caaaaactgg acgcacttcg tgtacaaact ggacaatctc 300
attcggagta tcagggtttc ggacgagaac tcattctatta cacgggcact ttaatgtttt 360
ttaaacttat ttgaactcgg g 381

<210> 5186

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B3

<400> 5186

ggtaccggtc cagaattccc gggtcgacgg ggagcacaag aaggacggcg agcacaagga 60
gggcaggaag gacaacatcg gcgacaagat cagcggcgac ggccacagcg acggcaacag 120
cgacggcgac cacaaggaga acagcgacca gaagaagaag aaggacaaga agcacagcga 180
gggccacaag gacgacgacg gccacggcaa caacaacagc gacagcgaca gcgactgagc 240
cagctccggc cagcaccgg cagcagcgtg cattctatgc aagatagatg aacgcttggg 300
agaagtgtgg catacatata tcttgcattg tttggaccgt gtggtaccaa atgttcgtaa 360
tgcgtgacat gtcgcatgga tcctgtg 387

<210> 5187

<211> 83

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B4

<400> 5187

taccggtcca gaattcccgg gtcgacgggg agcacaacac ggagtggcag caccacgatg 60

gcaagaatga tagcatgaac gac

83

<210> 5188
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B6

<400> 5188

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catctcattg tcattggcct ctatcatcac caaagctctt acttcttctt gtttttgctt 120
ttccctcttc ctcttctttg gtgcctcatg tgcagcccta catcgagcct ttgtttctgg 180
tgtggcttgc atacaacttt ttattgcccc ttgatacca gctatgtgtt gcttcactct 240
agtcacccca cctgacatct cctttccaca aagaatgcac ttgaatcttt gcagatcatc 300
tggatcaatc agcacaacaa attcccaagc catgtcatct gattttctct taagtttggg 360
acttgcaacc tctgaagtac cagaatcagg catctacaaa aatcacaagg gcaatagcat 420
gtattatagt attagtatta gacggt 446

<210> 5189
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C1

<400> 5189

gtaccggtcc agaattcccg ggtcgacggg catcaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa gaaaaacaaa aagataaaaa aaaaaataa acaagaatga aaaagtcata 120
actcatcaaa aaagtcacct aaattcaatt 150

<210> 5190
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C10

<400> 5190

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aggctgcttt ggagaacggc tggctgctgt gcatgaatct ggacaagctg gtccaatccg 120
tcgtctgaaa attagcgcag catgtcggcc ctgaataaat tctgctgctt tcgctcattg 180
atgaacagat tggggttgtt tcttgcttgc ttggaagatc gagagtgaac aacatatcct 240
atgttgtaag ttgcaactgt atctcatgcc aactcaataa tgagtgggac cgaaaaaaat 300
catgatggag caattcaaaa ggtcaagtag gatgtcataa ttgtcatcga aggatgtttg 360
gacctcaaaa aaatcggcgg cttcaaaagt atcaaactta agttccctt 409

<210> 5191
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-C11
<400> 5191

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atgttttgca tctgtagtcc tcgtagacgc gggcgacatc taacttgatc ttggattttg 120
cgtattgctt caatacagtt ccggtacaca aaaatacgtg atcaataaag ccctcctggc 180
tctacatgtt acatatgtat ggccaatctc ccgtatgaca cattagcaca ggcccacgctc 240
agcctgagac ccatatgtca gtgggagcga gaaataagat aatgataagc aaaaatgggt 300
gacgcaaagt ttcgaaacca caatccccag ccaaaatttg cgtgagcaag ccaccacact 360
atgggccaaa ttcgggtaaa atcaggatga acattcctgt atataaataa cgctg 415

<210> 5192
<211> 403
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-C12
<400> 5192

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gtcgggtaag tcgcaggtat ggccaccggg taatcggttc agatctcgcg ctcttgtttt 120
cgctgttctt cgtttggttg taattccagg cgagcgttct gtttgggttg tgctgctcct 180

tattacgttg atgtcgatcg aggcctagtt ccggtgggtt gtcctcctct gttccgttga 240
 tggttggtatt gtcttctgaa cctcgctgct ttggtttagg tcgcggttaa tctattttgc 300
 tttgacttct gatctgattg ggtcctggct aatccatcat gctctgattg cgatatgttt 360
 tagggtcgtg gcttatccat ttttatacta attgctgatt tga 403

<210> 5193
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-C3
 <400> 5193

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 tatgtgcaag ggcattgat tctgtaacgg cgaaggcatg ggtcgctact ggacgtcatt 120
 cataactcct ggcaaagtcg cttcccaggc agtgtaccat attccacgga catttttgaa 180
 atccaagaac aacctattgg ttgtatttga ggaggagctt ggcaagccgg aaggcatact 240
 catccagaca gtgaggagag atgacatctg cgtgttcacg tcggagcaca accctgcaca 300
 gataaagcca tgggacgagc atggaggcca gatcaagctc atagccgaag accacaacac 360
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 tcggaaacct ggtgggggtca tgcggcaac 449

<210> 5194
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-C5
 <400> 5194

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 gaggtcctct tccagccatc cttcattggg atggaagctg caggatatcca tgagaccacc 120
 tacaactcca tcatgaagtg cgacgtggat attaggaagg atctgtacgg caacattggt 180
 ctcaagtgtg gtaccactat gttcactgga atcgctgata cgatgagcaa ggagatcact 240
 gccttggtc ctagcagcat gaagattaaa gttgttgctc ctctgaaag gaagtgcagt 300

gtctggatcg gaggatccat cttggcatct ctcagcacct tccagcagat gtggattgcg 360
aaggctgaat acgacgagtc tggcccatcc atcgtgcaca ggaaa 405

<210> 5195
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C6

<400> 5195

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ctcactctat ggcctgaaat aacctccccg agcctggtag cagcggtttg ccgacttcca 120
caccaccatt ggtttcatct tcacatgttc gattcgtcgt tgtttgccct ctgccatgac 180
actgacatga gctacctttt cttctatctc ctccgacacc atgtttcacc gcatgatcag 240
ctctttccac taggcgctac attacatccc agatgttgag gtccgagaca cctccaatgg 300
cttcttcctg tagcatgcca agtatgtcag ccggtactt gatcgagggt gcatggccag 360
tttccagcca tcacatccct ggtagacacc cactccaagg tctctgccac caccggctca 420
gctgctgctg atgcaagctt ctactggact a 451

<210> 5196
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C9

<400> 5196

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aagatatgta tcaaggccag tgttcctgaa atcagtgccca ttgtcacttc taagggtgctt 120
tatcttggcg ccatagttgt tcattgctcg attggcgaag cgtctgaaga catcctacac 180
ttcagtcttg tagaggatta tgtgcactca agtatatcta gaataatcat caacaataac 240
aaagccatag aggcaagcag tagtagtaag agttgagtaa tgagtgggac cgaaaagatc 300
catgtggagc agttcgaagg gtcgagtggg tgtcatgatt gtcttcgagg gatgtttggc 360
cctcgtcatc ttccctgctt cacaggcacc gcata 395

<210> 5197
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-D11

 <400> 5197

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 ctaccggcgt acctcgccac ggccgtggag ggctgccaca tcacgggcca catcgtgcgg 180
 cgcttcgcgg agatggagct ctgccgctg ctccgttggc tgctgggctt cagaggggtcc 240
 agggagcgcc tcctcaccga cgacctcttc atcgccaagc tcgcatgga gatgggctc 300
 agcatgatcg ccaagaccgc tgccgagtac gagaagagac gggagaactt cgtcaaagaa 360
 attgacatcg tcatogetga tgtgggtggg gtcgtcattc aagggatgga cctttccctc 420
 aaggaaggg ccttgt 436

<210> 5198
 <211> 258
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-D2

 <400> 5198

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 ctgcccaggt tgcgctgtga aactgacaa ggggctaata agacagaatg tcgtggccat 120
 gattatttct caccaccatt gttgcggtgg cagccacaat gcaagctgag accgctctga 180
 ctacggagga gagctcattg aagactgcga ccccatcagg atacgtgttg acgccaccgt 240
 agcagctaca cgtgttgt 258

<210> 5199
 <211> 451
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-D3

<400> 5199

cgctgccagt accggtccag aattcccggg tcgaccctga ggacctggac ggcttggcgg 60
ccggcaacaa gcaggagcag gtgtcaagca tcgtctcgca ggggcacgag gacggacagc 120
cggatgccgc cgccggcaac gcggacgcta aggccgagaa gccccacaag aaggcgtccg 180
gcaagcaciaa gctccgcagc gactagaagc agtgcgcggtg agcgcgtcac tgccacaccg 240
cgtacgtacg taactacgag ctgtcgcccc gccacactct ccggcgacgc acgtaggcct 300
ccatccagca gcgtctccat caaattgatt aattgcgctt tgaattactc ttcttcttcc 360
tcgcggtact ctcttccttg attgtagaag gaacgagtga cgtactacca tacttcggct 420
agttacttaa agccttggtt aattttttcc t 451

<210> 5200

<211> 324

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-D4

<400> 5200

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ctcttgcgac gtgggttttt gcaacagtcc ggaacgctgc acagtgagat gttcctttga 120
gttttgtgtg tcttgctgga gttatgcatt gtgttatctc gaatagctgc cgtgctggca 180
tttgatcat aatcttaatc cgttcgtctg acacaaataa attcaatcac agaataaata 240
aatgcggacg atctatagga tcgaagctta cgtacgcgag catgctaggt cataactctt 300
ctacagtgtc acctaatttc aatt 324

<210> 5201

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-D6

<400> 5201

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tccatcccgg aggcgcagct gaactaccg gcgatactgg tgccactctc caagaagccg 120

ttcaaggcaa agcggacggt gacaaacgta gggccggcga agtcgatgta cactgctcac 180
ctggacgtgc ccaattggct caaggtgaag gtgcagccag aggcgctgga gttcacgtcg 240
gcgatggaga agaagacatt cacggtgacc gtgagcagca ggggaggtga cgccgacgcc 300
aacgccgggc agctggtcga ggggagccta cgctgggtgt ctgaagatca cgtgggtgcgg 360
agccccgatca tcgccgacgc cagggttgtc ccgacatgat tctgtcaggc gctccctgga 420
catgcttctc tcgcaagccg catc 444

<210> 5202
<211> 425
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-013-Q1-E1-D7
<400> 5202

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gacgatcggt ggcacggcca caacgaagtg catctctcaa ttccaggatc aacatgctgg 120
acgaatcctc ctttcatgtt aagttgcaac agtgcaagca aacaccatgg aggcttctgt 180
agttagggac ggtgaatctg catcaacagt gctggatgga aattgctcgc cgtccttcct 240
ccataaacca cgtagggacc ttgtattagc ctccccatct atccgtcagg aagccctgac 300
tttccctgct attgctgtca aaaatgctac cttttagca cacgaactga acttaagtat 360
gtcacatgga gcttcaggta acaaactctaa aagaacccaaa attaagtgtat ggcatgtcnt 420
tcgcc 425

<210> 5203
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-E1
<400> 5203

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gcaggagcaa gtgccctatc ggtggcagct gctgcacctg cttgcaggta caattgggtcc 180
 tcgcaaataca tcggatcttt cttatcggac gggatggtga tgatcatcac aggtcgtggc 240
 atcttcaggg tagttgtaag cgtagtgtga cgccgccatg aacttgacca acgtacgca 300
 gcgatcgatg tcgtttagg gcaaagcgat cctggaaaca tcgtacacga ttctcttcgt 360
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<210> 5204

<211> 462

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E2

<400> 5204

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 tccttggcgg acaccttctt ggtctctggc ggagctgccca ttgtcttctt acacttgccg 180
 gtggagctcg atggtgcgtc ctgcacggca gcgcagcact ccgaagaggt gcacttgccg 240
 gaggggcat cagaactctt gccggacttg gtcttcttct tcccccgagg agcttcaacg 300
 gcaggtgact tgcgatctgt tgcggctgtc gtttcccggt agatcttgtc agcgcagata 360
 agagcatcct tcttgcgcc agggacagag atgacgctta tcgggcttgg aatcttcagc 420
 atgttgatg tgtagtgaga ggctgccatg aaactggtga gt 462

<210> 5205

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E3

<400> 5205

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 ctatttgggg tcgagagtgg cactgatggt gaaggtacca ccagtgccgt cctccttggc 120
 ggacaccttc ttggtctctg gcggagctgc cattgtcttc ttacacttgc cggaggagct 180
 cgatggtgcg tcctcgacgg cagcgcagca ctccgaatag gtgcacttgc cggagtgggc 240

atcagaactc ttgccggact tgggtcttctt cttccccccg ggagcttcaa cggcaggtga 300
 cttgcatct gttgccgctg tcgtttcccg gtagatcttg tcagcgcaga tcagagcatc 360
 cttcctgtcg cctctgacag ag 382

<210> 5206
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5206

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 cttggctgac aataagcttg aagcgaacga caacaagggg tgggaattca tcacttcttt 120
 ggccaactgc agccaactgc agaaattgat actcagcaac aattcttttg gaggacaact 180
 accaggttca attgtaaacc tctcgacaac tctccaacag ttatacttag atgacactag 240
 gatctctggg agtatacccg cagatattgg caatctgggt ggtctcaacg tgggtgtaat 300
 agcaaatact tccatatacag gagtgattcc ggatagcatt ggtaagctag agaacttgat 360
 tgagctgggc ttgtacaata atacgttgtc tggcctcgta ccgtcatctc tgggaaaatc 420
 ttcacaattg aataagtttt atgcatacaa caacaac 457

<210> 5207
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F1
 <400> 5207

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 catctagctt gtgggagaga gacgcatcca tgacagcttc taaaaaggtg ggagaagcga 180
 ggattctaga ggagggatct aatgaagaag agagatagga gcagagacca ctgcacctta 240
 tagcactggt gacggcgata gcttgcaaca tcaatggcca caactttgcg agttgtgggg 300

gagcaaccga gaggggttcg atgttcgatt tggacagtcg cagtcggatc agagagcggc 360
 ggaaggaagg ggagcgagcg agcagaagca aaagaggcng anggggagat ggggttcgatg 420
 gcgccgggta aggetggcct ccttcttcgc ggg 453

<210> 5208
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F10
 <400> 5208

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 atagaaacta ttgttctctc atgcttcact tatattatct tgagagtctt aaacagcatg 180
 gtaatttact taatcctaata atgctaggta ttcaagacta gtaaaaaactt tcttatgagt 240
 gtgttgaata ctaagagaag tttgatgctt gatgattgtt ttgagatctg gaggtagtga 300
 tattaaagtt gtgctagtgt agtagttgtg aatttgagaa atacttgtgt tgaagtttgc 360
 aagtcncgta gcatgcacgt atggtaaatg ttatgtaaca aa 402

<210> 5209
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-F11
 <400> 5209

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 ggcgagcgat caaatatggt tagacataca attgtgctaa aaaatacaat tatacatgcc 120
 aaatcgtttc tggtcgtaag tacatccac atactcagtc ccggctaaac gtttctttta 180
 gtatgtacat tccacacagt cagtccaagg aatacgtttt cgttagtatg tacatccctt 240
 acagttaatc caagaagtac gtttctgttc gtatatacat cccacacagt cactccaagg 300
 aaaacgttcg ttcgcaagta catcacacac aattttcccc attaaattgt ttgtgatagc 360
 attgccattg cacatgatat taacaatttt atccttt 397

<210> 5210
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F2

 <400> 5210

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 gatcccacga ggaaattgaa cccgacgcac taccggcatc caacgtttta caccaagggtg 180
 tttaacgaat gccactccta tgaccaagat gggaattcct ttgagctctc cctggtaaca 240
 tccaagtgca ttggacccta tcttacaagc acgaagatcc ctaactagat attttcgcta 300
 taggagaacg tcacgtgcac ataacacaaa tgccttcaca cattcctgta caatgtccac 360
 tacaagtcca ctggaatcct accttat 387

<210> 5211
 <211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-F4

 <400> 5211

gtaccggtcc agaattccc ggtcgacggg gaagtttaat acttgatgat cattttgaga 60
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 tgttgaagtt tgcaaattcct gtagcatgca catatggtaa acgttgtgtg acaaatttga 180
 cgcattgaggt gtttctttga ttgtcctcct tatgagtggc ggtcggggac aagctatggg 240
 cttttcctac caatcgatcc ccctaggagc atgcgcgtag tgcttggttt ttgatgactt 300
 gtagactttt gcaataagta agttagttcc ttaggactaa tggtgagtc atggattata 360
 cgcacttttg ccttccatca ttg 383

<210> 5212
 <211> 416
 <212> DNA

<223> unsure at all n locations
<223> Clone ID: LIB104-013-Q1-E1-F7

<400> 5214

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aacatgataa acatcacatg caatcaaata gtgacatgat atggccaata tcattttgct 120
cctttgatct ccatcttcgg ggcgctatga tcatcctcgt caccggcatg acaccatgat 180
gtccatcatc gtgtcttcat gaagttgtca caccaatgaa tacctctacg tacatggcta 240
acgtgttttag caataaagta tagtaattta catggcggtta ttgatgaca cgcaggtcat 300
acacgaatta acacaattcc tatggctcct gcctgttgtc atactcatcg acatgc 356

<210> 5215
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-F8

<400> 5215

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agatccagga cgagctcgag aagggttaatg aagaagcaag tgataagggtt ttggagggtt 120
agcagaagta cagtgagatt cgcagacctg tctatcttcg gaggtgtgac atcatcaaaa 180
caattccaga cttttggctg acagcgtttc taagtcatcc tcttctcagt gagcttttga 240
ctgaagagga tcaaaagatg ttcaagtact tggaatctgt tgatgttgat gattctaaag 300
atgtcaagtc aggtactcc atcactctta acttctctga gaatccgtac tttgaagaca 360
gaaag 365

<210> 5216
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-G4

<400> 5216

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tatggggaga ttagtacgat aatcatgact ttgatgcatg gataagctag ctacatgcgt 120

gcgtgagttg gttagtctat gcatggcgtg agttagctgg tgaagttggt agctacgtgc 180
atgcatcgca tggatatggg tgcattgtgt tgagatattc taggaggtga gtgtccgtgt 240
gtgtacatgg atagagtttg ttagactcca agaaaaacga ggtacgtagt aggaggtggg 300
gatgggaaag cggccgctct atggggatcc a 331

<210> 5217
<211> 445
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-G5
<400> 5217

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ttccttatgg atcccttgta ttccgaagcc cgacctttac ttgatggcta tgttgacgct 180
tttaagcatg atcgcggtat ctagtacatc aaggagaaca ttagaagtgg agtgctaagt 240
gtctctcggg cgatcatcca gatttttttc cttggcctcg ctaaggtgaa atctgagaaa 300
gtgttgcttt cctttgcggc tgcattctcc atcgttattc atcattgtag tatctatttg 360
tatcaacatt cttggcttag atgttggtgaa accttgatga atatggagtt cctcaagttc 420
ttgagagcac acgcatgcac taagt 445

<210> 5218
<211> 400
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-013-Q1-E1-G6
<400> 5218

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ttatttttgg aacaaacgca atccaggaga cttggagtgg atgtcaggtg aagctcgcgg 120
tggttgtcaa ggtgatgggt cgacgggggt cgaggggtca ggtgacccag gtgagagtca 180
agttccttga tgaccagaac cgtctcatca tgangaacgt caagggggccc gtccgtgagg 240

gcgacatcct caccctgctc gagtccgagc gggaagccag gaggctgcgc taagaaattt 300
 cttcctttat acctgtctgt ctttgaaga agaatgatgt actgttgccct tcttactcta 360
 acgctttcgt tctttgcta gctatgtgga agtghtaatga 400

<210> 5219
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G7
 <400> 5219

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 agtggttgat ggctacggag caaaggttcc aagcctggcc tcgcgtcacc tgcccgccgg 120
 tcagcatgaa cctcatcagc cgccagaact tcattgtcaa agacctcaac ccctgaggac 180
 caagactctt gaagtttgcg gtcggttgga acctttacac tgatggcgat gcctgttgct 240
 aaatctacct atatgtgctg gctgtactct cgaggctatt ttgtctgtct caataattaa 300
 cacaacacta ttgtgtaagg cgccgtggct atatttcttc tgaacaacac aatacaacct 360
 gaagcacatt tgctttggac tttttgtcat cttttgtttg cataaacata t 411

<210> 5220
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G8
 <400> 5220

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 ggcattggag caaatgtagg tgccaatgcc ggtcttggtg tcggtgcaca taaaggattt 180
 ggtgctgggtg ctggtcttgg agcaaatgta cgtattggag caaatgtagg tgccaatgat 240
 ggtcttggtg gcggtgcaaa cggtgggtgct ggtgttggtg cgaatggagg cgctaacggt 300
 ggatttggca ttggagcaaa tgtaggtgcc aatgccggtc ttggtgtcgg tgcacataaa 360
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<210> 5221
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-H1
 <400> 5221

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 cacaagaaga aggacgggga gcacaagaag gacggcgagc acaaggaggg catgatggag 120
 aagatcaagg agaagctcca catgggtggc ggcagcgacg agcacaagaa ggacgaggag 180
 cacaagaagg cggaggagca caagaagaag gacgggggagc acaagaagga cggcgagcac 240
 aaggagggca tgatggagaa gatcaaggac aagatcagcg gcgacggcca cggcgacggc 300
 aagaaggacg gcgaccacaa ggagaagaag gacaagaaga agatgaagga caagaagcac 360
 ggcgagggcc acaaggacga cgactgccac ggcagcagca gcagccacag cgacagccac 420
 tgagccagct ccggc 435

<210> 5222
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-H11
 <400> 5222

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 aggggggcttc tccgcccctc cggcaccgcc gcctcatgag atgcatcctt cacaccagat 180
 gccacctgct catcatggaa atgagatgca tccttcacac cagatgccac ctgctcatca 240
 tggaaatgag atgcatcctc cacaccagat gccacctgct catcatggaa atcagcagag 300
 accggcaagt ggtgcccctg gaactggcca accacctccg tattaccacc attaagtgtg 360
 tgtgtacctt cgccgccatt tctgattagt ttatggagtt ttgccactcc aacantacgg 420
 ctaccccat 429

<210> 5223
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-H3

 <400> 5223

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 caccaggacg atgattccga agatcttgag ccctggcagt tggacggtga gccggtatcc 180
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 tgtttgcttg cccagaatg atcgaaacag ctctcatcag tcgtgtgttg gtctcttggt 300
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 gcatatggca tcctgtttgt tgttacattg tgctatatag gctgtagtat tcagattctg 420
 gatgttattt atggaaacat ttgc 444

<210> 5224
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-H5

 <400> 5224

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 ctgtcaattc tgttgagtcg gcgattcctc attatttgag gtggtcagaa cageccatca 180
 tatggagcaa agaggatcac cctccacggg tcgataatgc gggtcagtta gccttgggtgg 240
 tagcacccca gggtgggtga tataaatcca ctaagggtgct catggacggc ggtagcagca 300
 tcaacatcct ctactatcaa acttttcagc gtatgggggt aactgataaa aatctgagga 360
 catccaacac agttttcaat ggagtggtn ctggtaag 398

<210> 5225
 <211> 443
 <212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-013-Q1-E1-H6

<400> 5225

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caacatggca atttactttt aggcataata aaaacttcca tataagtgca ttgaatacta 180
tgagaagttt ggtacttgat aattgttttg agatatggag atggtgatat tagagtcatg 240
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tgcacgtatg gtgaaccatt atgtgatgaa gtcagagcat gatttattta tttattgcct 360
tccttatgag tggcgggttg ggacgagcga tgggtctttc ctaccaatct atcgccctat 420
gagcatgcgc atagtacttt ttt 443
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<210> 5226

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H7

<400> 5226

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gtataccctc aaatttacat ggcgatatgg tttattccct tcccttttat ttccgggtct 120
atggttttat attgagtgac gcggtacaaa atcatcatgc tatttttata taacttactt 180
tacttttagta agatctacgc accatgtttc actttggccg aaatcgatgt caacagatgc 240
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gtatcttata tttacgtgcc tcagacatat ggcttggcgc tggaagtgta tgcatgtcat 360
atcaaaatag cgtct 376
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<210> 5227

<211> 294

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A1

<400> 5227

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cctaaattgc ttagcgtaca acgtgagggg tacttttatg tattcacggt tagatcccat 180
tgagtaggct tatcttgacc ctccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaaaaaag caaa 294

<210> 5228

<211> 271

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A11

<400> 5228

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gcacccaatg caaggtctac aacggcaagt atggtgatca cattgtggcc aatagagttc 120
tcaatagtgt tggtagcgtc gaagaattgg taacacttga tgatcgcgtc aaccgagacc 180
tagataggat ttgtcaagtc atgcatcaca agcttgctga gttcaatgac tcatgcaaag 240
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<210> 5229

<211> 395

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-014-Q1-E1-B12

<400> 5229

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acactaacgg tttggatagt tgatccgagg gggcctctag cctgatagca ctaaccatca 120
cgtgggcata gtatgggctg tctgcgtcgt atgcatcagc cgaagcttag tagacgttag 180
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cccttggggg cataggttta gtccggcgtg ctgacctctc tattaagcct aggtctgggt 360
gtggcgctant gtttgggcca ggccgggcat gacct 395

<210> 5230
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B6

<400> 5230

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ccatgtactc acatagagca aggttacata tgatgggtccc cttccccctc ctcgacgcat 180
actatatgct cctaccataa tacaacccaa aaagaatctt catcgatggg gaaattaatt 240
aacctctcct gatgtaggtc aaagtgatgc acatgcatca acgatggcct cttggggcca 300
cagatggaag tgtcacacgt gaatgtccta gctaggataa ccaccgcctg catgcaagtg 360
gcgcaaagag gtgttgtgtg atgtttgaat agccattttc acaattttga tgtggcacgt 420
gcctcggaaa ccgaaaagtc ccgacac 447

<210> 5231
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B8

<400> 5231

gtaccgatca agaattcccg ggtcgacggg gatgtggatt tatgttttaa ttagtgtttg 60
ttccaagtag aacctttggg aagacttggg tgaagtctat gcgatcttgc tgtaaaaagc 120
agaaagtttt gcgctcacga gattagctac catattttac tggagagtga ttttaggttg 180
atcctttttg catatgattt atagacaaat taccaggtc caacaatttg tttcagaatt 240
tttggagtta cagaaatatt ctaatgatac agattactac agactgttca gtttttgaca 300
gattctgttt tctatgtgtt gtttgcttat tttgatgaat ctatgagtaa tatcagaggg 360
tatgaaacat agattagttg gaatacagta gatatgacac caatattaat tttaaatgag 420

ttcatgac

428

<210> 5232

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C10

<400> 5232

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tcgcaatatt cagattgctt ttatcatatt cttgcttggt cttcgattgc ttgcaggaat 120

agaccttcgt ggtcagggtg attgtgctcc ggcattggtca ataacctctc ggagttgggt 180

tagcgattgc taaggcgcaa cgtcgtgcac gttttagtc ggatcgtcaa agtcgtctcc 240

accaaatcga tagttatcat ctcatcgaaa gatcgggaca cccccgcctc tatcaagtgg 300

tatcagtttt caggttgctc ggtgagaatt tccagttttc ctagattaga tttattttct 360

tacctattgt ccatgaaaaa gccacataaa agagtttagat ctattcatcc ttgggtccaag 420

ccagtctgag cctgtgc 437

<210> 5233

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C11

<400> 5233

ggtcgacggg ggtagaaatg attgataagg agccaaacag gagcttcgta gttgagaagg 60

gtcgtggcac tcctttaaaag gatataccaa gtgtggcaca gaggttaacg aggaagaaac 120

ctgctgatcg taaatttctt cacaatgttc tttttgggag gaaaggcaag actgtcgatt 180

ttaaaggcca tatacttcag ttctctggat ttgtgtggca tgagagcgat gaaaagcaga 240

gagccaaggc aaaggagaag cttgacaagt gtatgaaaga catgctggtg gatctctgtt 300

ggcttcgtgc tattccggtt cccaaaacaa acatcagaaa ggaagatatt gtggcaaagc 360

tgttggactt cattgctgaa cctc 384

<210> 5234

<211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-C5

 <400> 5234

 gtaccgatca agaattcgcg ggtcgacggg ggatgatgat gataaggcct gaaaagccat 60
 tctggatatgg tagtgtcgat tgtattgtct acatttttta tataccatta cttgtgcaag 120
 atactatcat gtgaccaata aacattgggt tagttgcgct gcttatgtta tggatacgtg 180
 tgtaaaactca agtttgatgt tataaagtgg catttggtta tgcatacaaaa gacaaaaatt 240
 taaaacgagt gtaaaaattg aacataacac aatcagaaga aaataaaagc gacaaaaaaa 300
 tttgaaaagt ttgaaataaa acggggccgc ccaaagggtt caagccttag ttacccttaa 360
 atgcaattta aaacctctcc aaaaggcccc ccaaatttca ttccaggggc cttcttt 417

<210> 5235
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-C6

 <400> 5235

 attcgcgggt cgacggggga ccgcaacgcc gcgaggacgg cggagcaggc agagcacatc 60
 aggagaaccg ggaggatgcc gccctcgctg ggctgctgga actggtgctc gtagtcgtag 120
 acctggaaaa accagcatgc gttgctcctg tcaactaggg aatggaatgg atctggcacc 180
 gtagaatctt ctttcttctc ttttgattgg ttcagtagat atgtggcacg agaacagacc 240
 gcctgtaagt tgtaactatg tgtatgtaag ttgcgagctt tcttgcttg tctcatgttt 300
 cttgcattct tcagtgatgc tgagatttct gttcagatcc gtatgtacat tacagacagt 360
 gatttgcttc caaaaaataa taaatgatgt atgttttcaa a 401

<210> 5236
 <211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-C7

<400> 5236

gtaccgatct agaattcgcg ggtcgacggg gaatcccaaa gaaagatttt tcttttctga 60
attataatta ttcagtcaat tcaaataagg cgtatcttgt tcaagccaat aaatatagct 120
ggggttatag ttaaagcagc cagtagaaaa ccaaaataac tagttaaagt aagcatgaaa 180
gagttaaatt ccatttattt tttttttact acactacata tgttggtaaa gcattttacct 240
aagttatgga aaattcataa ttcattcagtt attttagata atactaaaaa acaagataga 300
gtaagataca gaagtgtaaa agaaagtgga ttcattcagat gatacatgag tccctaattc 360
cgaatcaaga gatttggtgt ggaatttgtc aattgagtaa agtaataata ttaagaact 419

<210> 5237

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C8

<400> 5237

taccgatcta gaattcgcg gtcgacggg actctcagaa gtttgcaaga gcccataaat 60
catcgacttg gaacatgctt gtctgatgcc attccaactc cggcattttc aaagtccaaa 120
ctgtgactgt gaaaccagat ttcttcatgc ttccaaaaaa gccattatcg atgtcaacaa 180
agttaacaat acctttgcat acaccaacag ttctatatgc ctccagggtat acacgaccat 240
aagagagatc atcgagctca gtccaaattt ctatccctgg aagctggatg aaacggagct 300
ctagattttc accagcagaa agcacgttgc aggacaataa gccgcgggtg taatccaccc 360
agtatattgt accatctgga taggagaata cctgatctgt ctcccat 407

<210> 5238

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C9

<400> 5238

attcgcggt cgacgggaag gtggggaagc tgatgctggc gctgtccgat ctgctctggg 60
aggacatgaa gtccgggccg gacagggtcg ccgttcata caagtgatcc aggggagggg 120

aacgctagag agatggcgtg tgcattgcga agcacgggca cgttcgtgcg tgtacaagat 180
 agtgtgtgag cccagccgca atttgttgcc cgtactgttt gtcacttgac ttgtcaagcc 240
 ctgtataact gtggtatgtg tgtgccggat ggatgactca ccatataaat aatactacga 300
 tcttgggtca aaaaagaaaa aacaataaga aaaattttga agaaaaataa caatacaact 360
 gttatcaaaa agcggccgct ctaaaggatc caagcttac 399

<210> 5239
 <211> 372
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D10

<400> 5239

attcgcgggt cgacgaggcc accaatgacg acaactccgt cgtcgccctc caccgagaca 60
 ccatggagag gctccagctc ttccgcggcg acaccgtcct tctcaagggt aaaaagagga 120
 aggacaccat ctgcattgtt cttgctgatg acacatgtga ggagcccaaa gtcacaatga 180
 aaaaaactgt cacgaaaaac ttgagagtgt gacatggtga tatggtgtct gtgtaacaaa 240
 gccccatat gtaatatagg aaacgcgtgt acatacatcc catagaggag acactttaaa 300
 ggggatcacg ggacatttgt tacacccttt ctaaacata cattccttta acccaaagcc 360
 ccttttgaaa ag 372

<210> 5240
 <211> 96
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D12

<400> 5240

tacaccctat agtgagtcgt attacatggt ctgccaccac gacaccctgg ataggctcca 60
 gatcttacgc ggttaaaccg tcactctcaa cgttac 96

<210> 5241
 <211> 342
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D3

<400> 5241

gggtcgaccg ggaccgcaat gcacgacagc catctcttcc gtgcggttca aacctcaaat 60
tccaaccccc ttctcccca aattaaggag gaccaccccg aaccggaccc ccaaaacttc 120
aaacccttcg tctcaacctc ggacaaaaaa tggggccaac ttcaacaaac ctgttcagcc 180
gcctctttgc caaaaaggaa atgaggattc ccatggttgg tcttgatgcc gctggtaaaa 240
acaccatcct ctacaagctc aagctcggag agatcgtcac caccatccca accatcggat 300
ttaacgtcga aactgttgaa tacaagaaca tcagcttcac tg 342

<210> 5242

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D5

<400> 5242

aattcgcggg togacgggag gcaattaatg taatatcttg tgagggaatg gagaggatgg 60
agaggccaga gacctacaag cagtggcagg tgcggaatca gagagctggg ttcaagcagc 120
tcccgtcga ccaggaaatc atgaagcgtg cacgggagaa agtgaagtgc taccacaaga 180
atttcatcat cgacgaggac aacgggtggt tactacaagg atggaagggg cgtatcctgt 240
acgcgctctc aacatggaag gcgaaccccc aattctagct tctgtaaattg gtgacctgtt 300
catatctttg gactctagag ctgattggtc ctggccaaca acccattagt agatgatgaa 360
cctgattact ctctgtagc atctgcctgt tgtatgtgct gcccatgca 409

<210> 5243

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D6

<400> 5243

attcgcgggg cgacggggag agacaaggct gcatccactg tcgtttactt ggcttatcaa 60
actacagagt tgagagaaca tatgaaagag gcgcgtggcc cagcgggaacc ccacaatgta 120

ctccccattg gcttcggctt ccgccaagg cgccatgtga agcgaggccc catccccggc 180
tctgttcttg tcaggcacta tcttcgtaag aggaggatgc ttgcttcttc gatatcaagt 240
cactgtgaag ggtcaagttc tgaatcgtaa attaaggcaa aagaatggat ggtggatctt 300
gttgattcat gtttgaagc tggtaacggc catcaagggt atccacttca atatgtttgt 360
actccaatgg tacacaaagg tgctcctggt gatccattct cgcgaggtaa tcttggtaca 420
ttc 423

<210> 5244
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-D8
<400> 5244

taccgatcaa gaattcgcg gtcgacgggc attgcaatac cgtttacgct cttttttatc 60
gcttgttacc ttgctgtttt tatattttca gattacaaaa acctatatct accatccata 120
ttgcacttgt atcaccatct cttcgccgaa ctagtgcacc tatacaattt accattgtat 180
tgggtgtgtt ggggacacaa gagactcttt gctatttgggt tgcagggttg tttgaaagag 240
accatcttta tctacgcct cccacagatt gataaacctt aggtcatcca cttgagggaa 300
atttgcctacc gtctacaaa cctctacact tggaagccca acaacgtota caagaagaag 360
tttacgtagt agacatcaca ccaccggatc gttgaagctc tgccgagggt gcaatgaaac 420
gttgctcgccg atggacttcg cctggggg 448

<210> 5245
<211> 337
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-E10
<400> 5245

tatagtgagt cgtattagcg atgctggtgt gaccttctac tcgcggggaa gaagatcaga 60
tgctccaga gatggctcca tgggtacggc tccgctatga tggactgttc catcattgga 120
gcagctcgat tgatgtgtat gacggcgagg atgaatcatg acacgacaga taacattaat 180

ctgaagtggg agtctaatag catgtgaata gatgatgtac aatacatcac caaaaagtgc 240
tagatgtgca atgcatcaac cacgccatgg ccgctctgac tgatgcagta aatactgttg 300
actcagaact taattgaaga aactgaactt tacagtc 337

<210> 5246
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E11

<400> 5246

taccgatcca gaattcgcgg gtcgacgggc agatataaat cccaagtgc tcaaagaata 60
gagctatgct ccccggaac ggccagaa attagtcttg ataaccaca agttagggg 120
atcacaacag ctttcgagg tagagtattc aaccgaatt tattgatttg acacaagggg 180
agccaaagaa tattctcaag tattagcaga tgagttgtca attcaaccac acctggaaac 240
ttagtatctg caataaagtg ttagtagca aagtaatttg atagtggcgg tagcggcaac 300
aaaactaat acagcaaaaa taatgttttt ggtattttgt agtgattata gcagtagcag 360
cgggaaagta aacaagcgag aaccagtata tggaaaactc gtaaggcacg gatcagtgat 420
ggataaatat gccggatg 438

<210> 5247
<211> 428
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-E12

<400> 5247

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taaattccagg cataatgcga gcgccaggat ttgaatcctg gtgggttggg gataccactg 120
tccacctaac caactcaacc acaggttgat tcgccaaaac tttttctttt gcgggtata 180
gcttcatagc ttaggttccg tatattggat tgcgtgtcgc acgtggcgta cgtatggtag 240
ggacgtattt aaccaggatc taatcgacct ttactttccc tataaaaaat ggcctttact 300
gtaagggaag gagaacatac accatgcac aggcatgaac attgcaaagc aaaacgttca 360

agtgccatgc gcgcagaagc tttgttctan ggcattgacat atcacgccta tttctctcttc 420
tccgcatg 428

<210> 5248
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E2

<400> 5248

aagcgaccga gttagaagtt gtcaatatgc attgtcgtat cgcgacctga atgaaataga 60
cgaaataatg ctcatgttcg aaagaatgtg tgagagtaga ctttacgcaa aacggccgct 120
ctaaaagatt taagcatagg tatgcgtgct atcgagatca tagctcttct atactgtcac 180
ctagattgag ttcatt 195

<210> 5249
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-E4

<400> 5249

gggtcgacgg ggataactaat tcatgaagag tggtatccta tggaccattt gtttcatctt 60
gcttgcaaag ctgaacagga aataaaacga cgtgttgaggc acgaggagaa caagcgacag 120
gtgcacattc caagagttga tatgattgta aatcatcaaa gcgatactat gacaaccaca 180
tccgttggtg tcaggactac atcacctcca ccatgtgaca catcgcccc gagagtggct 240
acatcatctg agttgatcat aagaggtaat gacaaaggta ctgatcttcc atctctacat 300
gagaatgatg aatgccttgt caatttgaat gcaccatctg atgagctacc cactactttg 360
atcacaccac ctattttaga ggactacgtt gataatttga ctttgccatg tgatcanaca 420
actg 424

<210> 5250
<211> 416
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E5

<400> 5250

taccgatcaa caattcccgg gtcgacggga gctagcagtg gcgctagggt ggtgggtggcg 60
gagaggtgtc accgtcgggg ggatctcggg tctcctggag tgaacaacga acaaatagtc 120
gtgttctgga ctgaattagg acttccaagg ctgttttttc cctgcagaac aaggaacaga 180
agttaacatc tgacgatttt atattggctt tgccaagtga acaatcaatc aggcgacaga 240
ctctacaaat attccgtggg ttcacagggc aaagttcaga aatttcagag aaacgacttc 300
agattcagac tcagagttga atgtaggctg gagattcagg atcatagcca gatagcctcc 360
acagcaatca atcccggcat cgcaagcttc ggcaaagata gtatggcatt tcagac 416

<210> 5251

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E7

<400> 5251

aattcgcggg tcgacgggag tgtccgacgt acaaccggac acattgatgg gtcttctaga 60
gcaagcggct atctcagagg cacatcgta cttaatgggt acggtgggtg agaggatttc 120
atccgcaaaa agcggggtga atgaagcttt tacgagcctg ctaagaggct ttgaggtagc 180
caaagtaata tatatatata tatatttgac tgtaccgcat acgcaagggt tgctctgtat 240
agatagtatc ccctgagact ctgggtgccg tccaaacatg gcgaacaaag gatcatagtc 300
tcacgtaatg ataccgttgt tttcgtgcgc aggcagctgc aaatccggcg actgaccgaa 360
ctgccgaatt tgctgaattg aggcggcaac ttgacatggc ggacgc 406

<210> 5252

<211> 302

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E8

<400> 5252

gacgggtcta gtgattcact tataatctttt agagcacggt ggtgtcttaa ttttgaagaa 60
 atttctagtc tctcatgctt cacttatatc attttgagag tcgttttagac cagcatggtc 120
 tgtgctatga tcataaagtt ggtcctggaa tgacgagcat ccgagttggg tctgggaaaa 180
 acttgagtt gaagtgtgtt ggcacctagg atcagtttga tctttcgaca attgtcgtga 240
 gtaagagaag tgctgccatg aatgtcctgc caattgggtg cacagcctga atggcaaagg 300
 gg 302

<210> 5253
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-E9
 <400> 5253

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 gttgcgggaa ttggttgcta tatacgtaga gatgatactt ttggttcaaa ttattttagt 120
 gggcattttt tgtatgaaac attagtattt agactaacia tatgtgaatt gaaactaaca 180
 tatagtatta tattcgctta ttctgtagta tgcattggtgc attttaatgt gggctctttc 240
 tcatgaatgc atagtggcac gatgtggcat atttgcattg taagagaatt aaagatagtg 300
 gggatcaatt acttaggtca tgcttgggtg catgatgagc tgacatagtt gcatgttgag 360
 ggaattagag ttagtgagga tcaactattt aggtttataa aatgggtgtt tcctgaaaa 419

<210> 5254
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-014-Q1-E1-F1
 <400> 5254

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 cgaatgcaat ggcgatggcg cggcgcttgg gcagctgtcc tcgcccgcca cagtcgatec 120
 caagtgggtc aagaggatcc ttgcaaactg gcagtcggca cagcgggtcac gcgtgcgcaa 180
 gctgcagtac atctcggagc ttgagcgcag cgtcacgtcg ctccagacgg aggtgtcggc 240

attgtccccg cgtgtggcat tctcgcacca ccaacgctca ctgctgacgc tggggaacag 300
ccacctcaag cagcgcattg cggcgcctgc gcgggacaag atcttcaaag atgctcatca 360
ggaggcactg aagaaggaga tagagaggct gaggcanaatc ttacagcagc agagcc 416

<210> 5255
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F11

<400> 5255

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gtaagtttca ttactgttga attggattgt atcgagtga attcagagat ccatgccaaa 120
agtaaggaac ctatgagaaa gaagtcaccc aaagggttac cagtcagcac catggatgtt 180
gggctagcca gcctgggttt gatcatcagc tctatcttaa tttgattgat acctaggtcc 240
tccaacgcat cactcttttt ttcatgttaa acgtatgagt gatgaataat agtgcctatt 300
tgttcatcgc ttactatgcc tgtgttaa atagtgccggg ttggctactg cattttatga 360
ttattgtagt tatccacatg aaagtgtctg tgcttttaata tataatt 407

<210> 5256
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F6

<400> 5256

taccagtcta gaattccccg gtcgacgggg aggttgagaa gctgattggc aggatagtga 60
agtggctgaa gcccggtggg catattttca tcagggaatc gtgcttcac cagtctgggg 120
attccaagag gaaagtgaac ccgacgcgct accgggagcc gaggttctac accaaggtgt 180
ttaaggaatg cactcctat gaccaagagg ggaattcctt tgagctttct ctggtaactt 240
ccaagtgcac tggagcttat gtgaaaagca agaagaacca gaaccagata tgttggtgt 300
gggagaaggt caagtgcaca gaagacaaag gctttcagag attcctggac aatgtgcagt 360
acaaatccac tgggaatctt cgttatgagc gcgtgtttgg ggagggttat gttagcaccg 420

gtggattcga gaacac

436

<210> 5257
<211> 436
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-G1

<400> 5257

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cacggagatt gttgctcgga caacttctcg ggcgaggaat gcaacacaaa gagccaaatc 120
gggtgggtgt ttggcgctct tcgtgtcact gatgacctgt tgatgaggag ggcgtatattt 180
aggaagcagc agcttgacaa caaaacaaca tcacctact ctaactgaag aggacagccg 240
gtgtgatttg ctcttacatt gatatcgcat gcgtatgaat aatgggtccaa tggaattggg 300
agcggagtaa gaagctcatg ttgcctttat gcatgtaata atcatgcctg cctgcatggc 360
ccgctagctg ttgggtccaat gcttggtgc ctgcctgaac tggcgtcaat ttccaagttt 420
gtttttgtat atataa 436

<210> 5258
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G10

<400> 5258

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tgaacagcgt caacactgcc ttcggcacat atgtggtggt actcagaagg acctccaggg 120
ctgatacaac aatcagaata aataaatgtc taagcatact gttctgattg tagttccata 180
actgtaaadc tgtaactata tgggtattgtg attctgtcgc aagtagaata aagaccccgt 240
gtatgctaca aaaaaaaaaa caaaaaaaaaa agaaagagac agattaaaac gataaaaaca 300
aaagtagacg tcccagaaag ttcaaagtaa cgtctagatt gtaaaaaaaaa gcggccgccc 360
taaa 364

<210> 5259
 <211> 170
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G4

<400> 5259

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 tacatcctat gtcggaggtc atcgatgctg acatcgaaat tcaattcatc 170

<210> 5260
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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G7

<400> 5260

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 atccttattg tacacacctt ttgagagagc catacatgaa ttaaaatttg atagaatact 180
 ctatgtgctt cacttatatc ttttgagcta tgtaattttg ctctatgtgc ttcacttata 240
 tcttttgagc tacgtagttt ttctctatgt gcttcactta tatcttttga gcgttataat 300
 tttgctctat gtgcttcact tagatatttt agagcacggg ggtggatttg ttttaaataa 360
 actattgatc tctcatgctt cacttaaatt attttgagag tctcttaata gcatggtaat 420
 ttgcttaata ataatatg 438

<210> 5261
 <211> 363
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G9

<400> 5261

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ggcggcgctcg tccaacgaga aggacatcga ggagatcaac gtggaggatg acggtagtgt 120
cgccatcgcg gatgcctccg tgggcgtagt caccaaggag gatgacagta tcatctcggc 180
cgatgctccg gcgatagaga aggaccagat cgacacgttc gtgcctgctc cggcagccaa 240
ggccaacgag gatgccggtg ccaccttctt ggctgccccg gtggccggtg atgatggcag 300
tgctccttct gttgctgctc cggcggccaa tgaggacgaa cttgtatcca tctcgtctgc 360
tcc 363

<210> 5262
<211> 371
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H1

<400> 5262

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gcaggcttct tactttaaca attccctata atcggaaaaa caggatcatc atgcaacaca 120
tgagttagtc ttaaagggtga gatcaggaac ctatcttctg tttatcattc cacacatgca 180
atatgggttt cctctgaat ctcatgata tctcactaat atgtagacta aagaaccatt 240
gcaattgtag gacagaaaat aaatattaat cacaacatgg aaataaataa taacatttac 300
cattgctgtt agggcatatt taaaatataa taaatcaaca atgttgatga gatgggagag 360
cttaaataca g 371

<210> 5263
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H5

<400> 5263

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tgaggaagga ggcaggagcg ctggataatc aaatttgatg cggcgctgca tgattttacc 120
agcatcaatt gtttttcagt tccagaacgc tgttgactta aacatggttt ccctcttttg 180
cgaatgagta tgagcatgat ttctaagtgg ccgtaacatc gctagcctag atatccctgc 240

tctggatttg tatgaatacc ccagtgtcag tgtggttgta atttgggggt ttgtagctgg 300
tcggttattc tgtctgttgg tatattggaa ttagacttta aacctgtgat gataactgaag 360
aactgcaacg atgtgtggaa gtcattgttg tcgattgttc attaaatata 410

<210> 5264
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H6

<400> 5264

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agcaaggatg ccgaggagat gaaggctgag atgagtacca tggatggcat cataaacacg 120
gtgtctgcaa acatcccat ggccctctc ttggggctac tgaaacccaa cggcaagatg 180
atcatggttg gcctcccaga gaagcctatg gagatcccc cctttgctct ggttgctacg 240
aacaagacc cggccgggag ctgcatcggc ggcatgagg acaccagga gatgctcgac 300
ctcgccgcca agcatgacgt gacggcggac atcgaggta ttgacgtcga gtacgtgaac 360
acggccatgg agcgccttgc ca 382

<210> 5265
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H7

<400> 5265

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atggcaagga gactgccggg gcatacaagg tggctgtcct caacaggaag aggccatcta 120
ttctggctct ctccaggcaa aagcttctc atctgcctgg tacctcaatt gagggcgttg 180
cgaagggttg atacactatc tctgacaact cgaccgacaa caagcctgac ttcatacataa 240
tgagcactgg ttctgaggta gagattgctg tgaaggctgc cgaagagttg acgaaggagg 300
ggaagactgt ccgctgttg tcatgtgtc gctgggagct ttctgacgag cagtcagatg 360
aatacaagga gagcgtgctc cctgaggctg tcaccgcaag 400

<210> 5266
 <211> 359
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-A1

 <400> 5266

cgggtcaagaa tatcccgggt cgacggggcgg ctggaggctg cggcggacgg cgagggagtt 60
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 cggatgccgg agctgcagca gtgggggtgga gcctggcgga ggggaggagc gatggaggaa 180
 gacgaagatc cccggcgaca agaatttcaa attgagggta gtttgggtact ttttcctggt 240
 ttcacctggt cggagaagtt cccaacgac aactattttg gaacagaggg agtatatggt 300
 tctatagagt acttcgtttt tgtactatac gcttgacaaa atgatttctt tataagctg 359

<210> 5267
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-A10

 <400> 5267

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 cctgacggtg aagcgcgaca acatctgcag cttcatctcg gagaccaacc ccgggcacgt 120
 acggtcgtgg gagaccaagg acagccagct gacgatggtg gcggacgacc tgaagccgcg 180
 ggcggtgctg acgtgcccgg agaagaagtt gatccagcag gtggtgttcg ccagctacgg 240
 gaacccgctg gggatctgcg gcaactacac gtttggcaac tgccacacgc ccaaggccaa 300
 ggagattgtg gagaaggcgt gcgtggggaa gaggaactgc gtgctggccg tgttccacaa 360
 ggtgtacggc ggggacctca actgcccggg caccacgggc acgctgggcg tgcaggcaaa 420
 gtgctcc 427

<210> 5268
 <211> 327
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-A8

<400> 5268

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atttcaattc ttggtgccta ttgcttaaga gagattgatc gagagataag atattgccat 120
gtagagagat tatgctttgc tctatcactg tggcaaatgc aataatgtat cccttctgta 180
ctatcattag gatttgaatg aatgcaataa aggatgggtgc tccttgtaaa aaaaaagaaa 240
atgaaacaaa acaaaaatag aaaaaaaga aagtaaaaac aaagaagaaa aaagaagatg 300
acccatcggg aaggtagcga agaatag 327

<210> 5269

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-B11

<400> 5269

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gatgcccaag gcacccaag atattcaaga acagccaaaa gcctaagctt ggggatgccc 120
cgggaaggca tccccctctt cgtcttcgtt cattggtaac tttacttgga gctatatttt 180
tattcgccac acgatatgtg ttttgcttgg agcgtcgtgt attatattag tatttgcttt 240
ttagtttacc acaacaatcc tttctttaca caccttttgg gagaagccta ctttattaga 300
aatttattag aatatacctag tgcttcact 329

<210> 5270

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-B12

<400> 5270

tagtgagtcg tattacctga gcttggggat gcccaacgaa cccaagata ttcatgatc 59

<210> 5271

<211> 320

<212> DNA

cgcacaaaggc caccatcgtc tggctccacg gcctcggcga caatggagcc agctgggtctc 180
aactgttgga aactcttccc cttcctaata taaaatggat ttgcccaact gcacctacga 240
ggcctgtggc aatttttggg ggattcccat ctactgcatg gtttgatggt gctgatcttt 300
cagaagattc tctgatgat gttgaggggc tggattcctc agctgcacat gttgcaaatt 360
taatgtctac cgaaactgca gacatcaagc ttggcggttg tggcttttagt atgggtgctg 420
ctactgcgct ttactctggg acttgct 447

<210> 5274
<211> 317
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-B9

<400> 5274

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ccatctccac tagagttatc ccaagtttca cttcacatcg tgatgttggt ttaccttttt 120
tttcttgctg tcgtcccgct gcctgctata acggacagcg ctccctgttg gcgccgccgc 180
cggcgggggt ggtgccctgg cggcggaggg tgtatgtcct ctgccgccgg gtgctcncct 240
gcttgtaact agatgggttg ttactctttc cgtccattgt caccggctaa cattgtgata 300
atatcagtct gggtaat 317

<210> 5275
<211> 242
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-C1

<400> 5275

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catgctgggc gggaagggcc agttccgctg gcaatgtatt caaggtgacg catctctcct 120
gcatcaccaa cgtcgactcc gttcactcga tctcagtaat tgtcattacg ttgtcaaata 180
tgттаататg caatgtccgc accatgtgat tgcacacgat ctgcaacaca acacctcctt 240

gt

242

<210> 5276
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C11

<400> 5276

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acaccgacac gggcgaactc atcatgcacc tgagtgggtt aacctcccc caagcattcc 120
ccggtgattt gatttgattt tcagagggaa gccagctatt gtctgccttt tgtgatcgta 180
atgttgcttc ctctatatat gagctatgaa aataattaag cgatgcctat ctcatctttt 240
acataacacc caccgtaatg atttgtggat ctaccagga tggcgcgtat ataatatgag 300
caacgtcgtg gtgagattcg cagattatca c 331

<210> 5277
<211> 449
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-C12

<400> 5277

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acggcatgat gtacctggac gtgaggacag aggaggagat gggcaagggc cacatccgcg 120
gtccctcaa cgtcccctac ttcttcgtca caccacaagg ggtccgggag aagaaccccc 180
ggttcgtgga gcaggtcggc tactcttca ccacagacca atacatactt gtcgggtgcc 240
agagcggcaa gaggtccgag ctggcctgcy tcatctcct agcagcaggg ttcattgaatg 300
tgaagaacgt gggaggaggc tacgctgcyt ggctgcacaa cggactctcg gttacaatgg 360
gagtcaccaa acggccacca naacctgaat ctgctgcagc aatctgaatc aactagtagt 420
acgtactacc ttagcatct atcaattct 449

<210> 5278
<211> 435

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-C3
 <400> 5278

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cgtcccacct ttggggacga aatgatatcc attgcctcta ttgctttcaa gtttttttct  120
cgtgtcaaca tagaacaaca ggagtgttgt gtgaattttt gtgatttttc ggggttcatg  180
tggacatttt tatgcattaa ctgagttttc aatgcattta tgtgcataat tcaaatatga  240
actacatacg catgcttctg tggacataaa ttggttgaaa aatcaaactt gtgtccttgg  300
gtgcatgctt aggtcccatg caagaaatgg gaatgaattt caaacacgat ggcacccgtt  360
gattgccggc aaaacaatga gatgcctggg tttctaaatc tagtaaatca aaaactcgtc  420
taaaattcat gaaac                                     435
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<210> 5279
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-C4
 <400> 5279

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acggagctta taagatttcc tgttgagttt tgtgttgtga agttttcaag ttttgggcaa  120
agcttttatg gactatggaa taaggagtgg caagagccta agcttgggga tgcccttggc  180
acccaatct attcaaggat agccaaaatc ctaagcttgg ggatgccccg ggaaggcatc  240
ccctttttcg tctccgttca ttggtaactt tacttggagc tatattttta ttgccacat  300
gatatgtgtt ttgcttggag cgtcgtgtat tatattagta tttgcttttt agtttaccaa  360
aattatcctt gatgtataca ctttttggga gaatcccat t gattagaat ctgccagaat  420
actcctatga gcttcacttg t                                     441
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<210> 5280
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C5

<400> 5280

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gctcggcctt tgcaagctgt aatccttaatt tcctttgcat tagctgcttg tggagggttg 180
agttagcgtt tcagtccagt gtttccattg tacccttctg cccgctgtaa tttgggttgt 240
tgctgtaact cctggccggg tgatggcttt gtaattcaa agccgggctc ctctgagacc 300
ttcgtttctaa aaaaaagaaa taagtattct tagtctgtca tactatttta tagaaacccc 360
cccgatgttt cttatattaa aaccgcgagt acataataaa tgtttttttt aaatactcgt 420
tacctctaaa ccgtaactat aaattt 446

<210> 5281

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C6

<400> 5281

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tagatacaaa tggttgaaaa aaaattgcat ggagaagggtt accttaaatt tacgtcggca 120
aaaaattcaa cctcttctgc tttgggcact caatgcttgt ttattgcaa aagaattctt 180
tctttcttgc atcaatctgt gttgaagtga aacactcgtt aaagtagaag cctagtctag 240
tcataaagat aagggaactac tttaaaatga atcagattgt ccacattcaa taacaagaat 300
gaatatcttc atttacagtc atattcaaca tacccttaag atgactaaaa tagacttggt 360
gtaatttaca gaaaagaaat acatgagata agtcacctac ctcatctatc atttaggaga 420
gggttagtat atgaagaaag a 441

<210> 5282

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C7

<400> 5282

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gagtgcccg agctggggcc gatcggggac ctgcttgtgt ccaaggactt ccagaccaag 120
gcgtccgtgc tgggtggtgca gtcctatggg agggcgggcg cggcggcggc cgcgtcgacg 180
tcttctgaat ttgctgttgg cgaggccgtc ttgccggcgc cagaggccat catgccggcg 240
acctccatgg ggcacccgcc aatgcgcca cgacaacatt cacattctga ccttatgctt 300
tgatagtagt atagtttggg aaagcttgct agcacattga ttaattaatt aattaattag 360
ggagcgccta atttttgcac gggaattacg aagtgtctga tg 402

<210> 5283

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D1

<400> 5283

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cactttgtga aggaagtatc atttatatta ttctgtttgc tccaaacttt ttgggaattc 180
tcttatgtcc aaatgattgc cacatgccaa aacgcaactt cattttccta ctgaatcttc 240
cttagtgatt tttcaaagtt tcggttcaaa tagaagcttt gtgaaggaag tactagctag 300
gagtatccaa ataagtttaa atttgcatgc ctcttcatgt gctccatccc ttgatctatg 360
tgagcacatg accaaatctt tga 383

<210> 5284

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D10

<400> 5284

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ggaaatggag cttggaggtc aagcttggag aggagaaagc ttaagtagtg tggctcgggc 120

attccatcga acacctcgtg tgcataggat gtgagctaga gcaccacaaa gctctcccct 180
cgccggcgac gaaaaacaga gcagtgggag tgctctgctc gcgggagagg ggtatatata 240
gtcaactaat tgggtccggg tctgtggccag aaccgggact aaagggcaac ctttgggtccc 300
ggttcaagcc accaaccggg accaa 325

<210> 5285
<211> 334
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-D11

<400> 5285

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aacattcgta ttgtgaacaa gttcttgaag ggagagggtg gcccccaaac catccatgta 120
ccatcagggg agaagcttgc tgtttttgat gctgctatga aatacaagaa cgaagggcat 180
gacactatca tcctgggtgg tgctgagtat ggcagtggaa gctcaaggga ttgggctgcg 240
aaggggtcaa tgcttcaggg agtgaaggct gtgatagcca agagttttga gaggattcac 300
cgtagcaatc tcgctggaat gggcatcgtc cctc 334

<210> 5286
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-D3

<400> 5286

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cttgttttgg atgtgatgoc tatatacatg atcatgccta gataacgtca taattattcg 180
cttttctatc aactgcttga cagtaatttg ttcaccacc gtaatactta tgctctcgag 240
agaagcctct agtgaaacct atggcccctg ggtctatctc ttaccatatt tgttttcaac 300
ttacttttat ttgcatcttc acttttcttg atctatatta taaaatacca naaatatatt 360

tatcttatca tactatcttt ataagatctc actttcgcaa gtggccctga aagggtattga 420
caac 424

<210> 5287
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D5

<400> 5287

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aaaatgaaga gggtcacatg cgttaattta cgtttagtc tttcagtgtc acgaggcaga 180
caccctcgtc ggttcgatct ttttcagctc caatcaggcc gccacatagg aggcgtaggc 240
acgcaccatc cgcagcgacc gtcgagcacg agcacatgga tgtattattg gcagaaccag 300
ctgccttggc cgtctcttga cacaactaac cctccgtcca caatatgttt tcaagcaact 360
ttt 363

<210> 5288
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D6

<400> 5288

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gaagaaggac aagaagaaga agaaggacaa gaagcacggc gagggccaca aggacgacga 180
cggccacggc agcagcagca gcgacagcga cagcgactga gccagctccg gcccgcgctc 240
cggcagcgtg cagtgtaggc gagatcgatg atgaacactt gggagaagtg tgacagacat 300
atatgttgca gggtttgag cgtgtggtag catatgtatg taatgcgtga catgcctcat 360
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aacgttaatc atgttggtat tgatgtat 448

<210> 5289
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-D7

 <400> 5289

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 atagaaagtg cattaacac taggatcaat ttgggtcttg ataattgttt tgagatataa 180
 aggtagtaat gttaagatcc atgctagtgg gtaattatga aattgataaa tacttggtgtt 240
 gaagttggca agtcccgttg catgcacgta tggtaaaagt tgtgtgacaa atttgttgct 300
 tgaggtgctc ttttgattgt ctcccttatg agtggcactc ggggacgagc gatgggtctt 360
 tcctaccaat ctatccctct aggggcatg 389

<210> 5290
 <211> 327
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-D9

 <400> 5290

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 cagcccccta gcatcgcccc atggtgatct tgactatggc ggtggagtga agaaatctga 180
 agctaccggc ggatacaccg ccggtattga gaagaaaccc gaagctgtct cggccagtgc 240
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 aacagacgtc tcctccagcg cggagac 327

<210> 5291
 <211> 332
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-E10

<400> 5291

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ccatgggagc aggtgatgtg ctctatagt cctatggttt gcagcgggat tggagtgggg 120
cgatgctaca agagatatgt ttgatacatt gtcgttgccct ttatctggtt cattaccctt 180
tatatggatg agggggacat ggattgatta cctctaatt gtggtttgtg ttggactctg 240
gttatctcgg cgtcgcgtga tgggcgcttg cctgggtaaa aaaaagaaaa aaaaaaaaaa 300
aaaaaaaaagc ggccgctcta aaggatccaa gc 332

<210> 5292

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-E12

<400> 5292

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tgtcagagtc gccgccatca gaagagaagg aggagtcaca caagtctttc gagttcccc 120
tgtccaaaga tttggctgca caatcagcag atgttgggtc tagcacgcc aagattcaga 180
tgccgcctcg acctgctgaa gttaccactg ctgcgaccac tcgtgccaag tcaacagtga 240
aggctgaatc gtgcactccc aacgtgcagg ggagctcatc cactcgctca aagaccgtgc 300
aaccgtctaa tctgaagcag tcctcgctgg cattaacgaa gaagagtgtg ctaaaggggg 360
ctctgatcc ggtggccgga aaaggcatct gctgctgcaa atgatattag gcaagaaaat 420
caggctgtga agaagcaaaa actagatgat 450

<210> 5293

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-E2

<400> 5293

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gcggccggac gccatcatga tcctgacggt gaagcgcgac aacatctgca gcttcatctc 120

ggagaccaac cccgggcacg tacggtcgtg ggagaccaag gacagccagc tgacgatggt 180
 ggcggacgac ctgaagccgc gggcggtgct gacgtgcccg gagaagaaga tgatccagca 240
 ggtggtgttc gccagctacg ggaaccgct ggggatctgc ggcaactaca cgcttggcaa 300
 ctgccacacg cccaaggcca aggagattgt ggagaatgcg tgcgtgggga agaggagctg 360
 cgtgctggcc gtgtcgcacg aagtgtacgg cggggacctc aactgcccgg gcaccac 417

<210> 5294
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-E5

<400> 5294

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 cgccttgctg caatgggtga cggatcaagg ttccatcagt tgaccagcca atcattgact 120
 tctagaaata aaatactaaa atctgaaaaa caaaaaatca cgaaaaatgg ataaatgatt 180
 ttgatttcaa ataatttcat ggatttgaaa aggaattcaa aaaaaaaaaat catcaatacg 240
 aaaaaagctc atggttttgg aaaaaagttc atcaaattga aaaaacacaa aattgaaaag 300
 gttcatgtgt ttgaaagaag ttcattgactt tgaaaaatgt tcattgattt ggcaaaattt 360
 catgagttca aaanaagttc acttaatttt ganaataagt ttacggattt gaaaaaagtt 420
 catcgatttg ataaaaa 436

<210> 5295
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-E7

<400> 5295

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 cgacacctac ctgtaactga attaatctg taagggtca tttgccttgc atgattctaa 120
 aaacataggg atagggtcatg gaaaaacacc tgaatatgat aggaatgcac atgggaaaca 180

tcgcatttgt gaacacagga tttctgtcaa cttgggtggt tgcttcacac gaattggagg 240
agcagaggaa tgcacataag catggccaca ctagagtga accatatgaa agcgtgtata 300
tggaaaaaaa tcagcgggtca ttcacacgaa acacggccgc tcttcaggat ccaagcttac 360
ttactcgtgc atgctacgtc aaagctcttc gat 393

<210> 5296
<211> 322
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-F10
<400> 5296

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tggttcggct gcggtgtgag gctgccgtcg ccgcagggcc tggccagcgg tgggaatagt 120
angggcggtg aggcctccgc ggcagcacag ccggccatgg gaggcaggag catgcgacac 180
gaccggcgct gctttgggtg gctggagcaa gaagaccaga ggttgaagaa gcaactacggc 240
cgttggatgg acatcgtagc gtcactggag ctagaatcat tcatattgac taagttgata 300
aagcccttca tccccatcaa ct 322

<210> 5297
<211> 339
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-G12
<400> 5297

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aagagagaac attcaaggag tggattgttt ggaaattaaa accttcagat ttcttagaag 120
tgaggttgct ttccaactac aattatagct tcaactggat ttatgtgaat ataagcgtaa 180
gatgtctagt ggcaatgcta caaaatcatt gcaggcgtga ctcgtagta tccggattgc 240
actgctgctg gccgtttctt gcaactgcgc acaacaggct tctgacaaag ccaagtctta 300
gactcatgag gtcccttttt tcagccaaac tgaaagcac 339

<210> 5298
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-G4

 <400> 5298

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 ctaccaatct atccccctac gagcatgcgc gtagtgcttt ggtttttgat gacttctaaa 120
 tttttccaac aagtatatga gttcttttga ctaatgttga gtccatggat tatacgacc 180
 ctttcacccc tccattattg ctagcctctc ttgtatcgtg caactttcgc cggtaccata 240
 caccacccat ataccttcct caaaacagcc accataccta cctattatgg catttccata 300
 tccattctga gatataattgc catgcaactt tccatcgctc catttattat gacacctttc 360
 atcattgtca tattgctctt tgcatgatca tgtagttgtc atcgtatttg tggcaaagca 420
 ccatcataat cttcatacat ttgc 444

<210> 5299
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-G7

 <400> 5299

ggtaccgatc tagaattccc gggccgacgg gcgccgttta ggaatcgccg gcataggcgt 60
 acggaattcg agtagatgca cgcagctaac gatccgatct ggcccgaccc atttaaacag 120
 ccagtcgctc tcggtttttag gtttgggact tttctaaaat ttcttgaaca agtttttctg 180
 ctttacttct ttattgtttt ttatttcctt ttttcctttt tcttttccgt ttcatTTTTT 240
 cttttttctt tttctgtttc ttttctgctt tattttttat tatttattta tttattaaca 300
 tttcgtcttc cttttctttt ttatttctca agtccattta ttttcaaact tgaacaaaaa 360
 tttcaatttt tctttggaat tccaaatatg ttctcgtcct caaaat 406

<210> 5300
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H5

<400> 5300

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catatgacaa aatctatata tgctgctgct atgagaataa tcatgatgcc ttcattgtccg 120
tattttatctt ttatcgacgc ctctacctct aaacatgaag acatattttt tgttatcggc 180
ttttcgcttg aggacaagcg aggtctaagc ttgggggagc tgatacgtcc attttgcac 240
atgcttttat atcgacattt attgcattat gggctgttat ttcacgggat gtcacaatac 300
ttatggctat tctctcttat ttacaagat ttacataagg agggagaatg ccggcagctg 360
gagttctagg ctggaaaagg agcaaatatt agagacctat tctgcgcaac tccaaaagtc 420
ctgaaactcc acggaatatc aaaa 444

<210> 5301

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H7

<400> 5301

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ggtagcggcg cggaggagga ggccggggag acggagaagg aggtgtggc gaggttctac 120
ggcggcggct tctggaggag ccctcgtcgc ctccggcgacg agaacagatg atcgggacag 180
gcccggggct cctgcatgca tgcgacggc tggcttcttc tacggctttc ttgattcttg 240
ctcgggtagg cttccttcgt tttcctcggg gggaaaccga ttagaggag gaaatgggaa 300
gcttgtgtgt cgtgtttgat ccacaccgca ttcttgttcc acctgtatc cgctcttttt 360
tcttcttttc tttctgggtg acgtcttctt tgttgccatt gtatgcaact aaatgtatat 420
accgagtaat gtgattgggg aaaa 444

<210> 5302

<211> 484

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-A4

<400> 5302

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tagtatgttc ttatatccaa tcattgcatg aaagttgcat gatctttgat ttcagaatta 120
tttatttcat cttctttata gaatgttcag ttctgaactt gtgaactttc cttacgtaag 180
cgtgctgtg caactcaatt gtaatcttag gaattttctt gttcattcta gttagcaatc 240
atatatgaac gaagttatga ataagatgtg cacacaactt gaacatgcgg cttttcgta 300
ttacaattgt gatcgacccc tctgtctatt attgagatgg cccgataaga tcaccaactg 360
tagatgtcaa gacttaatac ccacaataag cgctgctagt gaaaaagatg cccataccag 420
tacaacatag atogaagctc ttcaacaaac ataactcgat aatttcatta acattggctt 480
acat 484

<210> 5303

<211> 477

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B5

<400> 5303

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ttaaactttg tggccaacac caatacgcaa aacaatagtc agtgtcagaa ggaaaagcca 120
ccccgacttg gcgggcccac gttcaacctt gaggcgatga tgaaccagcc ttgcccacaaag 180
cacggtatgc aagagaagcc ggtcagtcac ctatggaagg attgcttcat cttgagggcg 240
tatagaaact ccaatttttt ccagaacaat cacggcccga atggcggacc aggatccagc 300
tctcacgggc ctggcttttg tggaggcggc tcaagttctg gtttccaggc ccatggcaat 360
caagggtggt taagtcagca gtatgggttaa gggaatcaac aggagcaatc tggttattag 420
agtaacctga agcagctaaa tagtggacca tatcatgtgt tcaccacgag tttatgc 477

<210> 5304

<211> 216

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B6

<400> 5304

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aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaccaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaccggc cgcccaaaag gatcaaacct aacttacct tgcattgcaac 180
ttcaaacccc ttcaaaagt ccaccaaaat ccaatt 216

<210> 5305

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B7

<400> 5305

cccggtggc cggaacaat ggtacaaatt caactatgta tctgccaaag ttgattatgc 60
ttaactctag gcattgcatt actatatcat ggtgaactat tctttgaaga attttagga 120
ggtactagaa aagtatgact tgatgagga tgccttgatt ttaaagaaca gcctgaaaga 180
atttagttta gtaaaatatt gtatagcctt ctcgtaaaag ttgatacac tttttcaaga 240
aaacgaactt tggtaataca ttaagctata actttttotca tatttgaaca acaagggttat 300
ttgagctctg ctaaaaaagt ggcaatgtta aaaaaaagg tttttgtgt aatttttgca 360
aactttgttg aaagaagcta caaataattg atttgcgtgt caagtctaca gtccaatgtt 420
aatctacagg gtggaatctt caaac 445

<210> 5306

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C3

<400> 5306

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ctgaaatgtg cgcacgggat ccacactgcc tgcattcacac ctcgtatgcg cgtggagccc 120
ccaggccagg tgtgcaaac gccagccgcc tagggtagga catgagccag ccatgcctat 180

gttcgtccac attgatccaa ccatggaatg gatttacacg ggctctcact caaatcccag 240
 gtgcatgaca gctagcgaaa tagctagcta cgatcaattg atccatgcgt tagatacacg 300
 cgtgatcaca cagttgcgca gtgccatgat catgtccggc cacaatcagg ccacatatta 360
 tgcaacctgc tagataccta cggcattgac ctcacatata gctcgaggag cactctgtat 420
 cacatatacc agatacactc atacatgca 449

<210> 5307
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-C5
 <400> 5307

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 agcaaggagc agaagaaact caagcagaga ggaggaaaga caggaggcag gagatttgaa 120
 gtaaagagta aactgaagag caagagaaga tgaaaatgta tgcgcatctt tggaagagat 180
 tttgccagtt tagttcgttt tttcggttca tggtgaaatt ttcaccggag aagaaacatg 240
 ccttggtcca gtgtagcttt gcgtagttta gtgcgaggcg gttttcatgt tcacacgaaa 300
 atgaaatctt ggcgcgccat tttatcttgt gtgtcattcg aaacaaaaaa tagaagggat 360
 cttgtgtgtc attcg 375

<210> 5308
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-C8
 <400> 5308

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 catgctacag agcatccata gtgataacaa gagctcaaaa aaatcgctaa aggatgttgc 120
 cacagagaac gagtttgaga aaaggcttct ggcagatgtt ataccaccga atgatattgg 180
 agtcaccttt gatgatattg gtgcgttgga gaatgtaaag gaaacattga aggagttggt 240
 gatgctccca ctgcaaaggc cggaattgtt ctgcaaaggg cagttaacga agccttgcaa 300

gggaatattg ctcttcggcc cccctggcac tgggaaaact atgcttgcta aagcagtagc 360
aactgaagca ggcgccaaact tcatcaatat atcaatgtca agcattacat cgaagtgggt 420
tggcgaaggg gagaaatatg tgaatgctgt tttttca 457

<210> 5309
<211> 343
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-D5
<400> 5309

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agagagagag agagatcaaa cacatagcta ctggtacata ccctcagccc cgagggtgaa 120
ctactccctg ctcggttatgg agagcgctgg gatgatgaag atggccaccg gtgagggatc 180
cccccttcgg cagggtgccg gaacaggggc ccaattgggt tttgggtggct acagaggatt 240
gcggcggcgg aactcccgat ctaggttatt ttctggaagt ttgggtatat ataagagggtg 300
tttgcgtcgg gaacaagtca ggggggtctt cgaggcgccc acg 343

<210> 5310
<211> 478
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-E7
<400> 5310

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agagctccac aacaattcaa gtggttctta caaagcttca tgtgatgctc ctacagcatc 120
aagtgagaat taagtctcga atgaagaatt gagcttaatg tgaagaactt caacaagttc 180
tacaagaata gaagcaaaga gagaagttgc aagtcaaggt cctaaaatga caaaagatct 240
tctagtcgtg atcgtaattg ctacaattgt ggaagacccg gacactactc caatgagtgt 300
acgactccct acaagaaaat ataagattca ccaaaaagga ggagtagaag agatgaatca 360
cctccaagag agaggagtag agatgatggg tatgagcgaa taccctctca tagaagcaag 420
gattcagaaa ggaaggacaa gtcatcaaag agctacacaa ggccaagact gcaagctc 478

<210> 5311
 <211> 473
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F1

<400> 5311

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ccaacgacca gaccacgacc gcttacggat ccctaccttt atcaatacct catatatact 120
cgcaatattc agattgcttt tatcaaattc atgcttggtc atcgattgct tgcaggaata 180
gaccttcgtg gtcaggttga ttgtgctccg gtgtgggtcaa taacctctca gagttggttt 240
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ccaaatccat agttatcatc tcatcgaaag atcgggacac cccgcctcta tcatgtggta 360
tcagttttca ggttgctcgg tgagaatttc cagttttcct acattagatt tattttctta 420
cctattgtcc aataaattgc catacacaca atcagttaga tctgttcac ctt 473
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<210> 5312
 <211> 489
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F5

<400> 5312

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cgacagtcgc cacacataag agctatccga agcgaaaatt actactataa tttgatgagg 120
aggccttaga gccccgcga tcaaagaata aggaaaacac ccggtcgggt aaacaaccct 180
acggccaaca tatagcagca atgggcatcg tactcaagcc ggcacgcgat ccgcacaagg 240
actcgcatca aaaagacagc ccagccagat ctatctacgg gccaaagaaag caagctctag 300
taagcaatgc aacgcaacaa gtatccgaac atcacggcac acccaaatac aggggtgccg 360
cacaccccct atgtttcacc gatgaggtgc tggaccatga atctccaccg ggattcaaac 420
ccgtaaakat agaggcatat gacggaacaa cagaccctgg agtctggatt gaggattata 480
tcctccaca 489
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<210> 5313
 <211> 474
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G5

<400> 5313

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 ccactcacga cacgggagcg actctgccgc gcagagcgct cacctcctta tcttgtgtgc 180
 cgaggcttgc tcgtctatctt tcctttttac ccaggcccaa tagaaagtaa cggcccaagc 240
 gttaacggaa gaacgtagac caagcccgtg agcgaaagaa cgttgtaata aggaattttg 300
 acaaaaatct ttagtgcgta ccccaaatta gtaccacctc gtttatatta cgattttatc 360
 tatataaatt gtaaaagcgt attatgacat gagaagaaag cgtattgtga cgggtgaaccc 420
 gacaaagtca atccgtgctt tattattagg gagagataaa tggatgcagt tttc 474

<210> 5314
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A1

<400> 5314

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 aataaaaact atcataggaa gtgaattgga tgctatgac aagttgatgc ttgataattg 120
 ttttgagata tggagggtgg gatattagag tcatgctagt tgggtaattg tgaatttaaa 180
 gaatacttgt gttgaagttg gcaagcccca tagcatgcac ttacggtaac cgttgtgtaa 240
 caaatttgaa acatgaggtg ttcttagatt gtcacacctt tgagtggcgg tcggggacga 300
 gcactgggtc tttcctagca atctatcccc ctaggagcat gcgcgtagtg cttgattttt 360
 gatgacttgt agatttttgc aataagtata tgagttcttt atgactaatg 410

<210> 5315
 <211> 311
 <212> DNA

ggggtcgccgg gggaaggcga aatcttttct ggctgataga taaaaatccc caccacatcc 60
 gcaagcgcgga actccctccc cg gatctgca actagccggc ttccctccc atccgtctcg 120
 ccgcgggcgga gatccttcct tcctccggcg agagccaaga tgtactcgtg ggagatgctg 180
 tcgttcaaca tccacgacgg gttcctggag gcgatcgtgc gggggaaccg ctcgggcctc 240
 ctcacccaag ccgattacaa caacctctgc cagtgcgaga ccctcgacga catcaagatg 300
 cacctctccg ccaccgagta cgggccatac ctccagaacg aaccttctcc cttgcacacg 360
 acaacaattg tggagaagtg cactctcaag ctggttgatg aatacagaca catgttgatg 420
 caggcgaatg aacctctatc tacattccta cagtacataa cgtatggaca catgatcgat 480

<210> 5318
 <211> 474
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-B12

 <400> 5318

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 cctaaaataa gtgactcaac tttatattaa ttttatgaga aaaaatcacc atatattaga 120
 aaaggttgag tatgtattat gaaaatgttc atcacataat aaaagagctc accgtatata 180
 aaacgatcag taaatataaa gaatatgtat attaataata tattcggccg gtgttcggaa 240
 aatattgatc gcatatttaa aattgtactt aataaactat atgaatgaaa aagtgcaaag 300
 taaaaaccaa aaagacaaac aatgtgaaac ccagacatga aagaaagaga aaaaccact 360
 aacactgtgt attaaaaaag gcaaaagaaa aaataaaagg gaaaataaag aaataaaata 420
 agacataaat agaaatctac acataaacat aaaaccggaa ctaaattgga acag 474

<210> 5319
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-B2

 <400> 5319

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 ccgataaat tctgacgcca ttttcgaatg ggaaggcatg tgttcaatcg tatctgagag 180
 ggagtgggtg ctcatgaccc atacttcgag tacaagaggg atgtccttgg caagcttggg 240
 ttctcctctt accagaaatg cactgcggcc gtccgcatgc ttgcctatgg aattccaggc 300
 aatttggtgg atgacgacgt gcgtatgagt gagacaacat gtctgatgtc aatgtacaag 360
 ttctgtcagg ctatgatcga ggtgtttggt ccagagtact tgaggcagcc aactgccgct 420
 gatac 425

<210> 5320
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B6
 <400> 5320

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 gtgtttggcg agctcggcaa gagagccgca gagagcaggg aggaaagctc tagtgctcaa 120
 gagaacaacg agcaacagct ggggtgctctc gagagaatca agcgaaggcg tcaatagggt 180
 cgaagattgt gatccaagca cgccattacc tgtcgtttga gcctaataat gttgtagctg 240
 ttacgtgtaa catgttcttg ctacggtttg ctcttcttgt acaatgattt tgcaggagtt 300
 aatccggtgt ggatccgcag cgtttttctg tgtacaaact gtaaactctt gggacacgtg 360
 tccatcagtt tcagtgaat tttgtcgatt tcaacgatga acaatggact ggcagctttg 420
 ttacaaa 427

<210> 5321
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B8
 <400> 5321

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aggagaacga ataagaagaa atcacgggaa caaaaaggag acgacccttc agtcttattt 120
 ataaggcaac agagttatat caaacgcacg gatgcaagag ctgcagttaa aagaagggtg 180
 gatatatgaa aaatgtcata aggacgtcat gcaggttcta caacaaccac aagtgatgac 240
 atcatgacag ttgaccaagt accagcacat gtcgatgata caagattttg tgacagattg 300
 acatgaacca tttcagatca cactggggcc taaagttggg gatactacca ctatgtgtaa 360
 gccggcatac ttggggccggg ttaacttcat tagtaggaca agcagatga 409

<210> 5322
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-C10
 <400> 5322

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 caaaggcaca agggccacaa aagttggttt ttacttcatg gagcaagaga agcaatgtga 120
 tgggcctaag gatttttttg atacgctagt agtacaacta tgggctgac catatgtttg 180
 gcctctgtac gccaaaggcgt tcgagagatc aacagataag gcagcgtcca tacttaataa 240
 atagttattt agattagagt ttagactcgg gttttattgt actccctccg tccggaaata 300
 cttgtcatca aaatggatac caggagatgt atctagacct actttagttt tagatacatc 360
 ccttttttagc aaggtttgat gacaggtact tccggacgg 399

<210> 5323
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-C6
 <400> 5323

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 tgggtgaatt gttacaacct ggaggctacc tgaaattgat ggaattgggt ctgcaggact 120
 gcgttgatga aattgatgca cagcgtgtcc ttggttatgc attattcaaa gatgggaaga 180
 acacaaaact ttcttacccc ttggagaagt tccattcaga tgtggctggc aggagctttc 240

acaatggacg gttcatacag aggatgagag aaaaggttgc atctttgccc aatgtccaac 300
 tggagcaagg aacagttaca tctttgcttg aagaaaatgg tacagttaag ggtgtgcaat 360
 acaagatcaa gtcaggtgaa gaactaaaag cttatgcacc attgacaatt gtatgcatg 420
 gctgcttttc aaacttaaga cgtgcccttt gctctccaa 459

<210> 5324
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-C7
 <400> 5324

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 ttatcttcat atagatgaat taatttagcc catatataat atccacctaa taatcagata 120
 tttggataat aataataaac agctggttac cagcagctct tgccatgata cttaggcac 180
 aaacagtttc tacaacttcc aatggtatca ctatgcataa tattttgttg acagaaaatt 240
 cactcccctg cagattggct gcaaacaaca aaaatatgct gacaagttgg ccaacttacc 300
 aatgcatcag ttttcgtact tgtcttgaaa tctgctaggg tttgtagtct ggctagtatt 360
 cctgaacgtt tgccagtctt caaatttgca cggacctttc at 402

<210> 5325
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-D1
 <400> 5325

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 ataagatttc ctgttgagtt ttgtgttggtg aagtttacaa gttttgggtt aagctttgaa 120
 ggactacgga atacagtggc gagagcctaa gcgtggggat gcccatggca cccacgaga 180
 tactacgagt agcaaaagcc taagcttggg gatgcccacaa gaacagcatc ccctctttcg 240
 tcttcgttca tggggaactt tacttaaagc tatattttta cacgccacat cataagtatt 300
 tttctgcag cgtcacgtac tacatcaatc ttaacttttt aatataccac aatcatcctt 360

tctgtacaca ccttttga

378

<210> 5326

<211> 303

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-D2

<400> 5326

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ttcatctcct tctgcaacgc caaccccgga ctcataagg acgtcggcaa agtcttctga 120

gtcagttcat ttcacctcag ccgtccgatc caggagccga ttcattctac tagggcctcg 180

tatatcaatt tcatgcaact acctactccg gtcccgatcc agcctcagct tcagctgagg 240

ccggccctaa ctttggttga tcattttttt gctaccagta gtaactagt atgattactg 300

ttc 303

<210> 5327

<211> 407

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-017-Q1-E1-D5

<400> 5327

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gttaagcttt gaaggactat ggaatagact ggcgagagcc taagcgtggg gatgcccatg 180

gcacccaag agattctacg atangcaaaa gcctaagctt ggggatgccc caagaacagc 240

atcccccttt tcgtcttcgt tcatggtgaa ctttacttga agctatattt ttacacgcca 300

catgataagt gtttttcttg gagcgtcacg tactacatta atcttatctt tataatatac 360

cacaatcatc ctttctgtac acaccttttg agataagccc acatgat 407

<210> 5328

<211> 437

<212> DNA

<223> Clone ID: LIB104-017-Q1-E1-D8

<400> 5330

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caggctctgc gcgtccattg tgcggagctg cctcaaggag ccctacaagt ccgaggccgc 120
cgaagtcgag aaggtccact actcccgtc caagtggacc gacggaaagc agcccaagcc 180
caccatctgc gaagatgata aatgaaagat ccggtgccat ggtgacagag tccttcctac 240
ggacgttttc aaaagctact gtgtttcgtg ctggccattc tacctaaaac tcgttatctg 300
ttacatttat gtttcacgct caagaataaa ttatttacgt gacattggat ctgttccgac 360
accattttat ttttaactttt aatcgctcct tctctaaaaa gaaaagaagt ggaagaaatc 420
aaaacaaaaa agcggccgct 440

<210> 5331

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E1

<400> 5331

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gtcagatcag ttctacgttg aaggagaata ggggaagaa gtttatcttc cgtgttaagt 120
cacagcccct ccaaccagac gtageccctt ggcagaaggg tgaactggtc taccaaatat 180
atctgtctcc atcaagcacc attggttcta tttactctac tgcatttcca tcagcagttt 240
attttcgtgc tctgtgccga tagttttttc gattatttca ttcaggttgt tatcaacttg 300
tgtttcaatg ttcacctgt ttcactgttt tcgtctgtat tcatgtgtta tcattctgtc 360
cctaagattc acctgtgaaa tccttcata cattgctatg tctcattcta ctacattttt 420
ttgcatgttg c 431

<210> 5332

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E5

<400> 5332

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gctggcgcg c taagccatta tgcattgaat tccgatgacc atcgcgctac cttcccccta 120
taagtactgt ttcccagcct tctccagtgc caccgtgacc caactcgcca taccctcata 180
agccccacc ggctcgatgt cgctcgccac gtacgccatg cccccgcccg tccacagtag 240
gcgacgccaa aggcgggtcac tgccggaact agtggttgggt ttttactgg aaggcagacg 300
gagggaggag gcattctatc tgtctttaga tggcaatgcg tagaccgagg agttgttgga 360
gcgcgaccgc atggcgagg agcaggagtt gttggagcgc gaccgcctgg cgga 414

<210> 5333

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-F1

<400> 5333

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gttgtctgac ggtggttgta tatcaatctt tgcttgctaa acttccgagt tccactgggt 120
cacgtttcat gcacatgtag tcggtgggga attacttacc atcatctact agtgagcctt 180
gattacagca tatgtttcgc gacgtacggt ctccaaatag atgcagctcc ctactatcag 240
gtagcggcaa ctgagtttac atcaggcggt cagttacca tcagttattg ggtgctgata 300
acctgacatc tggatctcac gcaggataat aatgcgtagg gtgaccctga gacaatattc 360
ccctggat 368

<210> 5334

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-F3

<400> 5334

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aattaaatta ctttatgaat ctattatgag atccacttat ggattgcata ccaaaaatga 120

caatacctag atctattctt gtttttatgc ctagctaggg gcgttaaacg atagcgcttg 180
 ttgggaggca acccaatttt attttcgttt cttgtttttt gttcccgttt agcaataaat 240
 gggtcatcta gtctatgttt ggatgtggtt ttatgtttta attggttttt gtgccaagta 300
 gaaccttcgg gaagacttgg gggaagtctt tgcggctctg ctgtaaaaaa cagaaacttt 360
 agtgctcaca agattttatg ccatttttta ctaaagagtg ccattagggt gattaatttt 420
 aagatgat 428

<210> 5335
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-F4
 <400> 5335

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 agaacgatcc gggtattgac cggcatcgat ctgtcaggca acctcttgtc tcagtgcac 120
 cctgacgagc taaccaacct ttacggcctc cgattttctga acctgtcaag aaatcatctg 180
 tcatgcggca tccctggaga tgctcgtagt ttgaagaatc tcgagtttct tgatctatca 240
 tgtaatgagc tttcaggaca cattccacag agcatctcgt tcttgtcaac gctcagcata 300
 ttcaacatct ccaacaatca tttgtcaggc angatacctg gtgggagcca gatgcagacg 360
 ttgactgaac cttcgtttta ccggaacaat tccggccttt ggggatttcc tctagccgat 420
 tgtccaacta 430

<210> 5336
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-F6
 <400> 5336

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 catcctcacg gccagggtgta tgggtatagg aactccctct gggcagaaca ccttggtatg 120

gttgatgacc acttcaagga accttctagc ctggactgtg taagattagt gaaccaaata 180
gccgaagaaa actgggaaag attcgcgtca gaagagatga aaacgttgca agggcacctc 240
ctcagatacc cagtgaaggt agagcccgat ggtaagattg tcccgctgcc cgaccaagaa 300
tgcttccccg acgttggcgg caagatctgc ggcgctccga cctcgcttcc tgattcgctg 360
acgatgtagc atcacagtac tgacttctct tcagggtcca atctggttcg tttgct 416

<210> 5337
<211> 466
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-017-Q1-E1-F9
<400> 5337

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atgtaaatacc aaggacaacc aaaagcctaa gcttgggtat gcccggaag gcatcccctc 120
tttcgtcttc gtctatcggg aactttactt gaggctatat ttttattcac cacatgatat 180
gtgttttgct tggagcgtct tgtatgattt gagtatttgc tttttagttt accacgatca 240
tccttgctgt acacacattt tgggggagac acgcatgagt cggaatttat ttgaatactc 300
tatgtgcttc acttatactt tttgagctag acaatattgc tctagtgtt cacttatatc 360
tttttagagc atgggtgggtg ttttatttta taaaattat ttatctctca tgcttcactt 420
atattacttt gagagtcttt tagaacatca tggtaatttg ctttgg 466

<210> 5338
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-017-Q1-E1-G1
<400> 5338

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gctgggtgttc ccatcatcct gcttcaatat catgacgcac gtcctagtgc atctagttga 120
cgagattgtc attctgggcc ccgtatttct acacaatatg tacccttttg agaggttcat 180
gggagtccta aagaaatatg tccgtaaccg cgctaggcca gaaggaagca tctccatggg 240

ccatcgaaca gaggatgcca tcgggttttg tgttgacttc attcctggcc ttaagaagat 300
 aggtctccct aaatcgtggt atgaggggag actgactgga aaaggcacgc ttggaaggga 360
 ctcaataata tgcagggacg gatattcttg gtctcaagca cactacacag ttctacagaa 420
 ctctaccttg gtgaccc 437

<210> 5339
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G3
 <400> 5339

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 aacaatacaa tacgtgtcgt ttcccctgct gtcactggga tcgagcacgc caagattgaa 120
 cccaaagcta agcacttctc acattgcaag aaagatcaat ctagtaggcc aaaccaaact 180
 gataattcga agagacttgc aaagataacc aatcatacag aaaagaattc agaggagatt 240
 caaatattgt tcatagataa actcgatcat aaaccacaaa ttcacggat ctgcacaaac 300
 acaccgcaa aaaagattac atcgaataga tctccaagag aatcgaggag aactttgtat 360
 tgagattcaa agagagagaa gaagcatcta gctaataact atggacccg 409

<210> 5340
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G7
 <400> 5340

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 cgtgtaggtg cccatacact tctcaatgtc ccatcaccag gctcggaact gggactgctg 120
 tccattcaag aaatcagtgc gtccagctcc taacagtctg gcattctcgt gatgctacat 180
 tacatgtagc aatgtcaatt tatatagtta tgcagacgat tcgttatgat aaatcccccg 240
 cgagaccaa atgcgatacg gacacgcgag atgatacgcg cttacatgat cgatcataca 300
 acatgcagtc tctgcaatac atgtcattct ggtgtccgtt ac 342

<210> 5341
 <211> 82
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-G9

<400> 5341

ggtatcacta taatgagtcg tattaggtga cgtacgttct tacccttaag ttcgggtact 60
 ctctgcagtg gcataaccat gt 82

<210> 5342
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H1

<400> 5342

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 actaccagta cttcctctgt gtcactggag accactctac tcctgttgag tacggagacc 120
 acagctttga acctgtcccg tttgcaatat gccgtctgag agatttcgtg ggagcgattg 180
 gggagggcaa tgtgatgaat accccccttg acgatttccc gctgcctttg gttaaaccg 240
 gagaagattt aactgatgat tcagaaccag cggaacacaa gcttggggag cgtaaagctt 300
 ttagcggcga tacagtgtgt gaatacccg agattgctgc tgcaaggggc tgccttgggc 360
 ggttccctgg aagtgagatg atgggcatca tcaagaagtt catgaaagca aagaacgatt 420
 aacgcc 426

<210> 5343
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H11

<400> 5343

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 gctaactctg atatttctat tagcatgttt gagttttgca tgtagtctag tctagtgtgg 120

tggttcgtccg acgaaggctt caggtgagcg cgccaatgag gtgagatgcc aggatgccgt 180
 gtgaggcggc gagcacggcg agatgccgat ggtgctgcgt gagaagcggc aagacgtatc 240
 agaggcaact cgacgtagaa gaaggagcgg cgctgcgagg aggcggcgcc aacaattggc 300
 atcagagcct tgatgatccg cggaagcgat ggcagcgacg acgacgcggc ggactccatg 360
 ttaagtggaa gacgtcggca cgatgtgggt ggccgtcggc ggcgcgatgc taccggtggc 420
 cggttgcggt gtgatccgc tagattatgg cggatgc 456

<210> 5344
 <211> 467
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-H7

 <400> 5344

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 gccggagcag gtgaggagc aagagcttca tcggccggtg caggcaccat gacccatcgg 120
 cagcgatatc agcgtcacag tccttgggag cacaatcgac atattgcaga ggaggtgtga 180
 taagcagttt gccatccacc gtgcaaaaga tccagagctg ctcgccggca tgatcgacga 240
 cccacccgaa gagacaccct caccagtgtc catcgagagc ctgatgcccc acaaggaatg 300
 ggcagaggac ctctgcgatt cagtcaagat aaaggcagcc tacggcttca tcattgcccc 360
 cggcgtccgt gtcaacctcg attctgatga tgtggtggcc aagctcgagc gcatecttgg 420
 cggagttgac gtccctgacg aagtagaaca tccccaacgt tataacc 467

<210> 5345
 <211> 314
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-A11

 <400> 5345

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 cagttttcag gttgctcggg gagaatttcg agttttccta gattagattt attttcttac 180

ctattgtcca agaagatgcc acaaagaaga gttagatcta ttcattccttg gtccaagcca 240
gtctgagcct ttgcaatttt cttttcattg cttgcatagt tgatttatcg gttgcatcgt 300
cgtgtccaat tgct 314

<210> 5346
<211> 400
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-018-Q1-E1-A6

<400> 5346

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ccgcagtctc caagatcctt tcatcgtacc ctgggccagc cagacgcctt gacatccgca 120
tggttcattac caactgcaag gtctaagcca agtacggcga gtggttctta tcgccctccc 180
ttgatcaact cgaggagctc agctttgaag ctggatgatg tcgctctctg ccgccatccg 240
cgctccgcct cagcccaacg ctgcaccgag ccagcttcag ctcttgctat cttcnccagc 300
cgcgcctgtc cttctttctc ctcaactcaa gcagctcgac ctcttcgaca ttggcatctc 360
gaagcaggct atggagcacc tgctccgcaa ctgtactatg 400

<210> 5347
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-A7

<400> 5347

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ggtgggtttgt tttcttatac taacggagct catgagattt tctgtttaag ttttgtgttg 120
tgaagttttc aagcttttgg gtaaataatt gatggatttt ggaacaagga gtggccagag 180
cctgagcttg gggattccca aggcacccca aggtaaaatt caaggacaag caaaggccta 240
agcttgggga ttctctggaa ggcattccct ctttcgtctt cgtctatcgg taaatttact 300
tgaggctata tttttattca ccacatgata tatgttttgc ttggagcgtc ttgtatgatt 360

tgagtctttg ctttttagtt taccacaatc atccttgctg tacactcctt ttgg 414

<210> 5348

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B12

<400> 5348

gggacaccct atagtgagtc gtattaggag attggcacgg agtacacggt tgagcatgt 59

<210> 5349

<211> 440

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-018-Q1-E1-B2

<400> 5349

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accaggacga gatctgagag gtggtgctga ccaagagccc cgacgcgtcg tgcgccgaga 180

tcgaggagtt ccgcgaccgc gcgcgcgtcn cgctcaccag caacaacggc atgaagcagc 240

agggcacccg cttecgccaac cccatcgctt tcttcccca ggagccgcgc aaggagtgcg 300

gcggcatcct ccaggcttac gacctcaagg acgcaccoga gaaacccatg aaccccatcc 360

catccatata gtctcgctca ggttgcttcc atcatcatca tcatcatcgt ctctcatga 420

ctctcctacg tacggtgccc 440

<210> 5350

<211> 149

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B3

<400> 5350

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atggattgag gctgctctga aggatccaca ctgacgtaca cttgcatgcg acctcatagc 120

acctctatag tgtcagctag gattcaatt

149

<210> 5351
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B5

<400> 5351

aattcgcggg tcgacgggcc cataaaataa gagcggtttt gacagtagtg tagtgtaaaa 60
aacgctctta tattatggga cggaggaggat agcatggaac aatcaaaaat tatagatagc 120
ttggagacgt atcagcatcc ccaagcttaa ttctgctcg tcctcgagta ggtaaatgat 180
aaagaaacag aatttttaat gtggaatgct gcctaacatg ttcatcacat attcttttct 240
ttttagcat ggacatatgg acttttatat ggttcaaagc aatagtctag ttttgaaatg 300
aagatttcaa tactcaagca tatcaacaag caaccatttc tttcagaata tcaacagtaa 360
agaaagttat ctctagccca tcatgctcaa tcattgatcc attcatgaaa cacactcgca 420
t 421

<210> 5352
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B6

<400> 5352

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gattgatgtc gttccctggt tggtttggcc cttcaattag cataactcatg tgaatgtact 120
tcctcttcat gcacaaccag gggggaaggt tgtacatcca cacaacaca ggccagggtgc 180
tatgtgtgct tctctggctg ccaaattgat tgactccatc ggtgctcgcg cccagcacga 240
tgttcccttg atcgttccca aattctgggt attcgaagtt caacgcttgc cactggctcg 300
cactcttacy gtgactcagc atcttgtctt ttttatctat ctccggatca tttgctgcaa 360
cttctcgctt ctccccctcc ctaccgcct gccaacgcag gagctttgct acc 413

<210> 5353
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-B7

<400> 5353

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 tgataattgt tcttttagtag attgtatttc cttgttgcaa tctgtgttga attctcctca 120
 tgcttatagt caaaataaag cttttaccaa acatattgtt gatgccttga tgcaatctta 180
 tgatgaaaaa ctttaatttg aagcttctat acctagaaaa cttaatgatg agtggggaacc 240
 tactatagag attaaaatta aagatcatga ctgttatgct ttatgtgatt tgggtgctag 300
 tgtttccaga attcagaaaa ctttatgtga tattcgaggt ttccatgata ttgatgattg 360
 ctctttaaat ttgcaccttg cggattccac cattaataa 398

<210> 5354
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-B8

<400> 5354

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 ccctctcgga tccacgggcc ttcttgagag aagctccgat ttgcaaaaag cttataccaa 120
 agcttggtccc aattcggcca taaaatttac cacaacatgt tggtgccatg tcatgacacc 180
 atgccaagtt tcatgatttt caagcgtgct ttggatttag atgaattaag aaaccaactc 240
 aatatttttcg gtcgagccat aacgcccaga tgtttgaatt tcattctcat ttcatgcatg 300
 ggacctagaa attcacctaa ggacacacat gtgatttttc aaccaacttt ggtgcactgg 360
 agcatgtgct tgtagtttaa atttaaatta tcacattaaa tgacta 406

<210> 5355
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C1

<400> 5355

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 caaatggaag gtcttgcttt tgatgccag atggtagatc tcattgtcaa ttttatcaaa 120
 tctttgccca aatagtgtac tgtaactgtg tgaaagtgcg caaagcgtgt agtgatgaac 180
 atcgaaaaca tacgatttgg atagtgcctt catggtttgt attttctcgt gttgtatgtg 240
 tacactgggt gttgtgttcg agatagtaat caaatcttag tttccatttc atatgagttt 300
 tagactcagt gatgcaagcc gcatggaaaa tcttattgtc atcacgacat tgtaatccaa 360
 tcttattatt gtttgtatag ccat 384

<210> 5356

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C10

<400> 5356

attcccgggt cgacgggatc ttcctagatg atgataggcg cttcagcatc aagctggact 60
 agaacttcaa agtggataca gtaagtcaca acgacaagtc ttttttcgta attaagcatg 120
 acatctgctt catttgcttc aacttatatt ttttactatt ctactagcgt atcccctgcc 180
 atgcaagagt ttttgtattg gataagatag gtttcagtca tagtatggag gaaaagaaag 240
 tttacttgaa gaccgagcat ggttatattt tccatgcgaa gttatacaat tcagacgact 300
 acacctattt tggatgcaaa acatggcgag cactatgcaa gacttatgca attgagccct 360
 gataaggggt atcacccctt gaatatccgt cggaagatg atattgaagg taataccgac 420
 atctgggtca atgtgcaaat 440

<210> 5357

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C5

<400> 5357

aattccgggt cgacgggaca cggaagcctg agccctgcaa gagaagacag ccaagaacgc 60
ggcgcgatgcc acgcaggggg cgcacgacac cttgaagaac gccgccggct cgatatacta 120
gttcgggatcc ggataccggc ccacctgcat attgcatctg ttctgtctgt ctctgaatt 180
gtcatgaagt ggagagatgt tctgatgtag aatttccgtg cgatgtggtt gcgcccggct 240
tgtagcaciaa ttctttcggc gcctccagat cggggccgtg ttgttgatgc gtaactcgtg 300
aatctttgac gcaatgagat gcatttcgtc 330

<210> 5358
<211> 358
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-C6
<400> 5358

aattcacggg tcgacgggta agtttacta gtggcttctc tcaagagcat aagtatttct 60
acggtgggtg aacaaattac tgttgagcaa ttgacagaat tgagcatagt tatgagaata 120
tctaggtatg atcatgtata taggcatcac gtctgcctcg aaaaaagac ctgctgctgc 180
cctgttgctt aattataaat gccgttgaag cgatcgagct aagaatcagt gaaagatgac 240
aataagcaat cttggtacac ctctaaatac gtagtcttta tttgttaacg gtgtccctat 300
ttatgacctg tcaaccaaag atttgtgtac tctagtaatg tatgtattat atcaccac 358

<210> 5359
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-C7
<400> 5359

aattcccggg tcgacggggg acgagaactt caaagtggat acaataagtc acaatgacaa 60
gtcttttttc gtaattaagc atggcatttg cttcatttgc ttcaacttat aatttaagca 120
tgacattaag catgacaagt ctttttttac tattctacta gcgtatcccc tgccatgcaa 180
gagtttttgt attggataag ataggtttca gtcgtactat ggaggaaaag aaattttact 240
tgaagaccga gcatggttat attttcaatg taaaattata caattcagac gactacacct 300

attttggttg caaaacatgg cgagcactat gcaagactta tgcatttgag cctgatatgg 360
 ttatcacctt tgatattcgt ctaaaagatg atattgaagg taataccgac atc 413

<210> 5360
 <211> 325
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-C8
 <400> 5360

gacggggcag tagagttggc ctgaggccag accatataat agatacgggc gtgttctaca 60
 caggagttct tgtagaacat gttccagtca aacctcgttc ccttcgtctc cggttttcaa 120
 taccaacacc tgtcatcctc gtctcccatc gtttgatgg aatagccaca tggagctgac 180
 cttcacttta cagagacagg ggcaagccga taattttag cctccctggt tgtattctgg 240
 aaatttcagt agaactgaat ccctgtagga gctcactaaa gactctagct aagacctttt 300
 tgagacgctg ggtgactcgc gtgga 325

<210> 5361
 <211> 365
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D5
 <400> 5361

aattcccggy tcgacgggag gttcaaagga gagaagcgac agagtttagaa gttgtaaata 60
 tgcattgttg tatcgcgacc tgaatgaaat aaacgaaata atgctcttgt tcacaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 ccggccgccc aaaaggttca agcctaactt acccttcaag gcaagttaaa acccctccaa 240
 aatttcaacc aaaatcaatt taatggccct ccttttaaaa acttcttaat gggaaaaacc 300
 ctgcgттаac caaactaaac ccctttgaaa aaaatcccca tttcccaagc gggctaaaaa 360
 caaaa 365

<210> 5362
 <211> 345

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-D8

 <400> 5362

 gacgggatgc aaaagataca caaaatatgg aaacttcggg caagtttggt gatcatagga 60
 gcattgagac gcagacaaat ccaattgata gttctatagc actcttactt tttcatcagc 120
 catcagacca agtggctgga gctgttgaca atcctcgcca ctaaaatctc ataacgagaa 180
 ccacaaggcc tatgctaaaa actaggttgg ttaatgttgc gaaaattact ggagatggct 240
 cgtggagatt caaggatcgc ctatgcatat attgtaataca tcatctccgt gaatgcatga 300
 gcaatcgtga atgtttatcc gatatggtac ggtacgttcc gtttt 345

<210> 5363
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-E10

 <400> 5363

 aattcccggg tcgacgggcg cgttacgaaa gctgaggctt tattacgaga caaagaggaa 60
 gaaaatgcga tgctgaagca acaattggaa cattatgaga ataaatgggc agaataatgag 120
 accaagatga aagttatgga agaggcatgg aagaaacagc tctcttctct gcagttgagt 180
 cttgtggctg ctaagaagag cctagctgct gatgacatgg tcacccgagc agctcggact 240
 gataccactc caacgcatgc tcaatacgac tctgaagata caatgtccac agggacccat 300
 acctcagacg ggacagagtt gaaataccag aaccaaatac cctaagctaa aatgggcaac 360
 gggaaactca aataggcggg ataaatgcgg tgaatcacct atcaaaggag tttgaggaca 420
 ggcgacaggt attcga 436

<210> 5364
 <211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-E11

 <400> 5364

attcccgggc cgacgggaga aagtatgcaa tagattgaat aaatagatag caaataaaat 60
aaagtgcagc aaagtatattt tggtttaata gatctgaaaa taaatacaag aaaaagtaga 120
tcgcaaaggc aaatatatga gaaagagacc cgggcgcat aggtttcact agtggcttct 180
ctcgagaaaa atagcaaacg gtgggtgaac atcaaatact catgacgata tccaggcaat 240
gatcatatag gcatcacgtc caagattagt agaccgactc cttcctgcat ctactactat 300
tactccacac atcgactgct atccagcatg catctaatac aataagttca aggaaaaatt 360
ggagtattgc attaggaacg atgacatgat gtaacaaga tctatctatg tagagatgga 420
cccatcggtt ttatccttag 440

<210> 5365
<211> 349
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-E9
<400> 5365

tcccgggtcg acggggattt taaccatgat agcgtggctc gccgtgcatt gaaaaataca 60
tgtctcgctt atcttgcac cctgaatgag cgagatgtca ctgaacttgc attaactgag 120
tacaagtctg ctacgatcat gaccgagcag tttgctgcat tagcagcatt gtctcaaaat 180
ccagggtcaag tccgtgagga tgcccttttg gacttctata acaaattggct acaagattat 240
ttggttgtaa gcaagtgggt tgctcttcaa gctacctcgg acattcctgg aaatgtagtc 300
catgttcaaa agtgactggc tcaacctgct ttgacatgc cgaatccgg 349

<210> 5366
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-F7
<400> 5366

acgggctaga ctacggtggt gaggaagggt gtgcctgtct tgcgaagat gagagagggt 60
gcatgtgtca taaccttttg gtttggataa tttatcattt ttcttataaa attccctctc 120
attattgaac tacaattagt tacatcatct atctagtaag agacgaatga gttcaacagg 180

aagttagtagc aatatggggcc cttggacatt aatttgcgct agtcatggg caacctcatt 240
 tgattctcta aagtaatgca cacaattagt actaggaaag tcacaagcta gatggtagca 300
 atcagccaca accgcagttg caggttccat tgatctccct ctttcttttt ttttgcgga 360
 ccattgatct cctccatca ttcattgagt ttactagttc aaattatccg aatttacaa 420
 a 421

<210> 5367
 <211> 363
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-G7
 <400> 5367

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 taccaccata atcagtggct gcgttcatgg gcatattcac cagcgcggcg taccgtata 120
 gctgacagaa agtgtgcttt ctcagcatga agataatata atgggaagga atattgcgtc 180
 aagaagaacg atcgggtaga gcttatcacg gcaagctaca ggtcgtacct agcagacaag 240
 cattgtctca tgaaagttaa cttttttag atgtacaaat tgatgtagaa taggtgaatt 300
 taatttcac tatacatgat caattgcttg ctgtacattt gactaaataa agcaataaat 360
 cag 363

<210> 5368
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-A10
 <400> 5368

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 agaaagctct tagatgatga aaagaaacc gatatcacga aacgaccaca cgctcctatt 120
 gaagatgagg tggaatgcaa gaagccaaag atagcagaag gctcaagggtg ccaaggagaa 180
 gaacctgagg ctggagggat aaagaattcc tcctgggtct gatgacaggg gaatgcagta 240
 aacaccagaa gcatcaaaac tatgatctgg aacagtatcc tgaataaact attttctgga 300

ttatgaatga attctgaagc atgggggctat aagtgaatta tgtaacatgg atttgtaact 360
atggtggatg ttaaagttaa cgttctatca gtacatcgtg aatgcgtgct gaatatg 417

<210> 5369
<211> 182
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A11

<400> 5369

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aaataaaaaa acaaacaca aaaaaaaaaa aaaaaaaaaa agcgcccact caaaaggatc 120
gaagcttact tacccttgca tgcaacttca tgccactgca acattgtcac ctaacttcag 180
tt 182

<210> 5370
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A2

<400> 5370

ggtccagaaa tcccgggtcg acggggggct gaaagagggt ttatatcacc ctttctggga 60
acaactgatg catcagccag atataacctg gacaaaaagg ctttcttctc ttcagcactt 120
tctttgcgcy tgccagtatc tgaggatttc ttgagtaact gaagtactga ttgcagtgtc 180
tcaatctttt caggatttat ccctggggag caacgatgtt tccagaagtc aacttccttg 240
tcacggtgcc atgcacttcg tctccttctt gtggacgatg catacaactt cttggtcaga 300
ttctcacgta tcttgccctt ttgaagcagt gacttccttg cgagtgaaag gttgggtttt 360
ttggctggtc catccatgga cttcccaatt gctgaacgga atgcggtcaa aagtttttcg 420
tcaa 424

<210> 5371
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A5

<400> 5371

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gatcatgatac acgagaaata tctatatacg ataataaggt tgtgttattg ccgccatgtc 120
cggtgacctg atgtttgttt cagctagaga aatcgtaag cccgctcata atttttcgac 180
gccatggaaa ataataacta ctggtatatc actctataac aaaccggctt gtgaaataaa 240
tggttgcgcc ccggtttttt gtcgtcaaaa aaaatgaaca aaggagttgt aaaaagccaa 300
aaacttgcca aagcgcataa tataccaacg ggctgttcta aaggatccaa gcttaagtac 360
gc 362

<210> 5372

<211> 393

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-019-Q1-E1-A6

<400> 5372

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gaagaagact ctctcccgga ggaggagag aggaagagga aggcttcccc aatangggag 120
gctgaagggt ccaagagggg gagaactatt ccccggaaca gctctgcca caccaatgtt 180
ggcgaggagg agtgcccttc aagggccagg cctcctgcga gatcgtaagt atccggatcc 240
ctgtatatcc taaaatttct ttcgtgccac atagtgcctt tctaattgcc catagtatcc 300
gcagtcgggc cgatgatgat ctecccgctt ttctgagcgg gtcgttgggc ccgtcggatg 360
tggattcact tccgacggcc tctactcccc gcg 393

<210> 5373

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A8

<400> 5373

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aagagaaggt cgtgtgagcg gccccggcaa agaggacgat ggcgctgatg aagcgagatg 120
acgtgatgca aggctcttgg tccatcgccg tggatgagaa acgtccatct ctagcagtgg 180
acgacgcggt cttggtaggc gctccagcat ggtggaggat ggtggcgatg gatgtagtgg 240
aggacggcgg cgatggatgt ggtggaggac ggcggcgatg gatggggtgg cggacgaagg 300
ctggtgtggg gatggtgttc tagcgcggaat ggtgtatgaa tgggaaaatg gatggacagg 360
tacggtgaac catgtttttg gacgcacctg tatgaaatat gggaaagtta cgaacttagc 420
cccc 424

<210> 5374
<211> 447
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-B10
<400> 5374

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tatgtgaaat taattgaagc gggaccaaac aaagcggacg aaaccaagaa catcacctcc 120
ctttaatagt aggtatagat ataggtttag agagatgaca ggaattgctc atccacatgg 180
ttagtcgtaa aatcctacat aaaacttgta gatcactgaa tatgatatgt ttgattcctt 240
gcaatagatt tgcgatataa aggtggtgat attagagtca tgctagttag tgactatgga 300
ttagtagaaa tacttgtgtt gaggtttgtg attcccgaa catgcacgta tggatgaaccg 360
ttatgtgatg aagtcggagc atgacttatt ttttgatttt catcctttgt gtggaggtcg 420
ggattgtgcg atggttaact cctacca 447

<210> 5375
<211> 461
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-B11
<400> 5375

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tttagtagtt gcggatgctt gctaggggtc caatcataag tgcataatgat ccaggtagag 120
 aaagtatggt agctcatgcc tctccctcat atagaattgc aagaatgatt accggtactt 180
 gttatcgatt gcctagggac aaatgacttt cttggtgaca aaatccatct acttttactt 240
 tcccgaatt tattcatagt tttattctcg caaagtactc gtagtttatt cttgcaaaat 300
 agttcatact tgttctaggt aaagcagaca tcaagtgtgc gtagagttgt atcgggtggc 360
 gatagaactt gatggaatat ttgttctgcc tttagctcct cgttggggtc gacactctta 420
 tttatcaaag aaggctacaa aagatcccct atacttgtgg g 461

<210> 5376
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-B12
 <400> 5376

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 aagtgcagc agatggcacg ataaaagact ggtgattatt atccatttcg tagggctagt 120
 acgaggggaat gggagatccc gtcgtgttta gctctcactg tgctgccctc gacatatctt 180
 gtttttggag atctcccttg tcatttatac cttagatcaa ttttgtttgg tgaattgaga 240
 tgttgcttgt tcgagtaaat acgatgacac acttctgaca cttccatctt acaatgggaa 300
 ttgagctgtt gcttgtaaaa ctttgttcca tggaacaaat gtaactgtgt tccatgttac 360
 aatgggagtt gagctgttgc ttgcaaaaaa cattaactcc acaatgagaa caacactctt 420
 aattaacaaa aaaagctaca aaatattccc caatacc 457

<210> 5377
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-B2
 <400> 5377

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 ggctgacgaa aggcgccatg agcttgcccta taccaagata gtggagaagc tcttcgtggt 120

cgatccccgac tacacgggtcc tggccttcgc cagcattatg aagaacaaga tcacgatgcc 180
 tgcccacctg atgtatgatg ggcaggagga caacctcttt gagcacttca gcgcggtggc 240
 acagaggctg ggcgtttaca ccgccatgga ctacgccgac atcctcgagt tcctgggtcaa 300
 gaggtggaac gtgcgccggc tcaactgggtt gtccggtgaa ggcgcgcgcg ctcaggatta 360
 cctatgctcc ctaggaccaa ggtttangaa gctgggtggag cgagctcagg ggagcgggaa 420
 gcagttgcct gttgttcctt tcagctgga 449

<210> 5378
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-B6
 <400> 5378

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 catcgcggct gacgaaaggc gccatgagct tgcctatacc aagatagtgg agaagctctt 120
 cgcggtcgat cccgactaca cggtcctggc cttcgccagc attatgaaga ggaagatcac 180
 gatgcctgcc cacctgatgt atgatgggca ggaggacaac ctctttgagc acttcagcgc 240
 ggtggcacag aggctgggcg ttacaccgc catggactac gccgacatcc tcgagttcct 300
 ggtcaagagg tggaacgtcg ccggcctcac tgggttgtcc ggtgaaggcg gcgcgctca 360
 ggattaccta tgctccctaa ggacaagggt tangaagctg gtggagcgag ctcaaggag 420
 cgggaagcag ttgccctgtg t 441

<210> 5379
 <211> 203
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-B8
 <400> 5379

taccggacca gaattcgcgg gtgcacgggt ggtaagaaga gtttttgcag taactggggg 60
 tgaaaggaga aaaccaaaga agaattgtga catataccta cggcttggat gattgggttg 120

tgaaatggag atattgttgg ttaattgatt tagtgctgaa aaaaaaaaaag aattttaaaa 180
 aaaaaaaaaagc gggcgctcca aaa 203

<210> 5380
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-C1
 <400> 5380

cggtcctaga atccccgggtc gacggggctg gtgatcaccg ggtggggcgcc gcagctggag 60
 atcctagcgc acagcgccac ggcgggcgttc atgagccact gtggctggaa ctcgaccatg 120
 gagagcatga gccacggcaa gccgattctg gcatggccca tgcactgcga ccagccgtgg 180
 gacgcggagc ttgtctgcaa ctacctcaag gccggcgctcc tcgtgcggcc atgggagaag 240
 cacggcgagg tggtcacggc gaaggccata caggaagtca tcgaggaggc catgctctcc 300
 gacaaaggaa tggccatgcg gcaacgggca agtgcgctcg gggaggccgt ccgcgcctcc 360
 gtggttgacg gcggttcgtc gcgcaaggac ctagatgatt tcactgctta catcacaagg 420
 tgatcgacan aatgccatcc tggacgat 448

<210> 5381
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-C3
 <400> 5381

cggtcagaa atccccgggtc gacggggttc agtctcttat gatactccca catattctga 60
 tatgaagaag acattttgcg ttaatatgtg agcagttagt ggactttttc aatgccagga 120
 agttcaggat acgaatggct taagggctgg ttaaaatgat gagttcactc aggacgctac 180
 tgaagattac tatgaaggag gaacatatgc ttgtaagaat tgcactaatg tcaagtttcc 240
 gctctatgtg cttaacgttt tgacgttatg catgtgttcc ctccctatgc tacttgattt 300
 ttgttcccct aagttgtttg ctcaaaaat cactattcat atgaagtggg ttaggcttaa 360
 atgtgctact aatatgcttc atgatgctct cattctgtct caattcgtat cgtttatgcg 420

agcatcattg aaatcatcat gccttagc

448

<210> 5382

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C4

<400> 5382

ccggtcctag aatccccggg cgacgggagc tggatcctgc ccggcaacga ggagtacaaa 60
ggtgtatgga atcacgcgaa gagtgatggc catgaatact aaggctctcca tgtagcgag 120
ccagccagga aatatgccat aatcaaggaa cttgactatc cagttactat gaaggatgag 180
acagttgtcc tgcagtttga attgaggctt cacaatggcc ttgagtgtcg acgtgcttat 240
atcaagtata tccgtcctca cgcgaccgga tggaacacca aggactttga cagtgatact 300
ccatacacia ttatgttttg tcccgacaag tgtgggttcaa cgaacaaggc tcacttcac 360
ctgaagcaca cgaaccctaa gactggcata tacgttgaac atcatctcaa gtccacact 420
ctg 423

<210> 5383

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C5

<400> 5383

taccgatcca gaattcccgg gtcgacggga cctaagtggg ggttttattt tcttatacta 60
acggagctta cgagttttgt ttgagttttg tgtgggtgaa gttttgaagt tttgggtaga 120
gattcgatgg actatggagt aaggagtgga aagagcctaa gcttgggaat gcccaaggca 180
ccccaaggta atattaaagg acagccaaga gcctaagctt ggggatgccc cggaaggcat 240
cccctctttc gtcttcgttc atcggttaact tgactttgag ctatatTTTT attcaccaca 300
tgatatgtgt tatgcttgga gagtcatttt cctttgttag cttttgcttg ctgttagttg 360
taataatgtg tttcatcggt actttcagta tacatgacaa cgataccctt tgccatgctt 420
actttg 426

<210> 5384
 <211> 251
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C7

<400> 5384

tacaactcac tataatgagt cgtattaagt cgacgggggtt gaattcagtt aattgtaatc 60
 aatacaagtg tgatgatcat catatatata gcattgccca cattaaaaaa aaggaaaaat 120
 gccaaattca atgaaggccc aaataaaaaa ttacaataaa gaaagaataa gcggccgctc 180
 taaaggatcc aaacttacgt acacgtccat gcgacctcat agctcttcta taatgtcacc 240
 taaattcaac t 251

<210> 5385
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C8

<400> 5385

gtaccggacc agaattcccg ggtcgacggg ttgatcctgc tgaaaatcag aaacttttgc 60
 acccaataaa ttagtttttg taatccaaag aaacgtgatt ttgatatgat gctttttgat 120
 atgtactggt acacaagtgg tttagggttt cgcaatttat caggatttgt ggagttacag 180
 aagtattcta gagttacagt ttactacaga cagttatggt tctgacatat tctgcattct 240
 atgtgttggt tgcttatatt gatgaatcca tgagtaatat gggagggtat gaaccataga 300
 gaagttggaa tacagtaa atttcacaaa tatgaattta gaatgagttc ataacagtac 360
 ctaagtgggtg atttattttt ttatactaac ggagcttacg agttttctgt taagttttgt 420
 gttgtgacgt tttcaagttt tgggtaaa 448

<210> 5386
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C9

<400> 5386

taccgatccc aaattcgagg gtcgacgggg cctgggtgga cgtgccgccc atgcgccacg 60
ccatcgctgt caacatcggc gaccagctgg aggtgatcac caacgggagg tacaagagcg 120
tgatgcaccg cgtgctcacc cgccacgacg gcaaccgcat gtccatcgcc tccttctaca 180
acccgggggc cgacgccgtc atattcccgg ccccgggcgt cgtggggcgt gccgacgctg 240
ctgagaggaa cgagggcgag gagggcaccg ccgtataccc aaggttcgtg ttcgaggact 300
acatgaacct gtacgtgctc cacaagtctg aggccaagga gccacggttc acggccatga 360
aggcagacgc cgcacccatc gccaccgcat gataactgat acgcgcccgg acccgagcga 420
gagtattgtg agacgtgttt tattttcttt tgggctgtcc 460

<210> 5387

<211> 446

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-019-Q1-E1-D10

<400> 5387

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aaagaagggt gtagcttcaa gtaatggtac atcagttcaa gaagctgaac agcgtacaat 120
tgaaagcata tgtaatcagg acaagacagc agcctcgctt atatgccagc tcaagaaacg 180
tcattccaca caaatatcaa caatgccaat gatgaaagat gtccttggtg ttgtggctac 240
cttaggaaaa acaaatgatg ataactaag cagcctactc tcagagtact tgggaataga 300
caatatgctt ggtctcgctt gcaagactta tgatggcata aagagtcttg aaacatatgg 360
cacagaaggc aacattgata agaaaagtgg tattcatgga ctgggtggct caattggnaa 420
gattctgcat gggagggtta cgtgtt 446

<210> 5388

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-D11

<400> 5388

gtaccgatcc ggaattcccc ggtcgacggg tgccaacaca aatgggtcaa tggtcattgc 60

cactcacagg cgtcacctgc ttgatggtcg aagacgaggg aagggcgaca acatctaaaa 120

ctccgcgttc cacgacgccg agaggtaggc tctctgacgc atgacaaggc tccacggggg 180

cttggtgatg ccagggtccac ctccgaatcc tgaagagacc ccaacttgag ctgctccatc 240

gatagagggtg aaacagatac cacaatacat gcacacaccc aaggcagaat acatgagctg 300

aagattagca acaacgcccc atacaagtcc aagcaaagca cctcgctcgt caccttctat 360

atacataaat attatagagg ttgtaataca gagaatctga aatagctctt cacaccaaaa 420

ccttttaaaa tagttttgtt accttttttt gc 452

<210> 5389

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-D12

<400> 5389

attccccgggt cgactgtacg gacaccgaag ccttagaagc tttcaagcat agcgttcgag 60

acgaatgggt tgccatacac ctcggtcaag aaaagccgag aacaatggta gcattaacaa 120

gcctcatgac ccgtttttgc gcgggagagg acagctgggt agcccgatgc ggcaccagcg 180

actcaagtac atccgaagtc agggatggaa acgggaaatc atgacgcagc aagaataagc 240

gctagaataa agaagacagc ccgaagagca ggacggtaaa cgccggattt agaagctctc 300

ggctaggcca gcagaagccg cctccaaag gcaacagaga tgaactgtcc agcctaaaca 360

aaattctgga ccaaatatgt tagatccata gcatecctga taaacctgca tatcataccc 420

acagagaatg ttgggt 436

<210> 5390

<211> 440

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-019-Q1-E1-D2

<400> 5390

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 ggaggcaacc caattttatt ttgtgttttt tgtttttgct tatgtttagt aataaataat 120
 ccatctacct tctgtttgga tgtgggtttta tgttttaatt agtgtttggtg ccaagtagga 180
 cctatangat aacctacgat gatagttgat ttgattctgc tgaaaaacag aaactttgcg 240
 tgcacgaata taattatgat aaattacagg aacgtgattt tgcgttgatt attttttctg 300
 ctgatcaata aacaaattgt acagaacttc ctattttggt agaattttta gagttccaga 360
 agtttgcggt agttacagat tgctacagac tgttctgttt ttgacagatt ctgtttttcg 420
 tgtgttggtt gcttattttg 440

<210> 5391
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-D4

 <400> 5391

accggtccag aaatccccggg tcgacgggga aggagaagaa gctcaagtca aaaaagcaca 60
 ggaggcgaag ctattcttcc tcagaatctg acagtgaatc cgagagcgac agcgatcgga 120
 aacacaggaa gaggaatgac cgcagaatgc acangaaaca tggccactct gactctgatg 180
 gtgccaggag gcgcaagcac aggtcaaaga ggaggagctc agactctagc gatgagagcg 240
 acagtgatga atatgatagc gaatctgaag aagagcgccg aaggaagaag cactcgcaca 300
 ggaggaagca tcgccgtcac tcttcaaggt cagagtctga tgcttcagat tacagcagcg 360
 atgatgatga gcgaaggatc accaggaagg aacacactan gagccggatg caccgccacc 420
 gatcatcaga cgatgaatcc gangacaa 448

<210> 5392
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-D7

 <400> 5392

aattcgcggg tcgacggggg tatgagatag tccttggttg atttatataa tgctctttgc 60
acttcacttt atcttgtgag tatggcttta tagaatgctt catgtacttc acttatatca 120
tttgaagttt ggaattgcct gtttctcttc acttacacaa ccgccatttg tagaatgctc 180
tttttattcg cttatatattg ttacagcatg gacatatctt ttgtagagag aattatactc 240
tcttgcttca cttatatcta tttagagaga cgacaggaac tagccattca tatggttagt 300
catataatcc tacatacaac ttgtagatca ttgaatatga tatgtctgat tccttgcaat 360
agttttgcga tataaagatg gtgctactag agtcatgcta ctcggt 406

<210> 5393
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-D9
<400> 5393

gtaccgatcc agaattcccg ggctcgacgg gcatgatata tttattgatt gtcttcctta 60
tgtgtggagg tcgggatcac gcgatggta actcctacca acccttcccc taggagcatg 120
tgtgtagtac tttgttttga tgactttagt atttttgcaa taagtatgtg agttctttat 180
gaataatgtt gagtccatgg attatacgca ctctcaccct tccaccattg ccagcctctc 240
tagtaccgcg caactttcgc tgggtgcatta caccacccat ataccttccct caaaatagcc 300
accataccta cctattatgg catttccata gccattccga gatatattgc catgcaactt 360
tccaccgctt catttatgac acgctccatc attgtcatat tgctttgcat gatcatgtag 420
ttgacatcgt atttgtggca aagccaac 448

<210> 5394
<211> 430
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-019-Q1-E1-E1
<400> 5394

gctaccgggc cagatatccc gggctcgacgg gcatatgcat gaggcaacag ctgatgccgc 60
cgcgtcctgt atctgccagc ccttcgtagg tcctggggcg tataagtaca tttatatagc 120

acctaggttag taaaacagat ggtctagccg atgtctactt ctagtcctat ctcaaattatt 180
 ttctttttctc tctcttccat ctgtttctct tttctgagat gagaaaataa aaaccttcag 240
 cagtgcctagg cgggccaac tctccttgtc tctctctctc tctccctagt ttttcctcca 300
 gccagctgg gctaccagg gctgcggc ccatccccta accaaggccc gcctaaaccc 360
 ttctaaacct agctgcacag gagccatcgc tccatcncct cacagccact cgatcccaac 420
 tctttgccc 430

<210> 5395
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E10
 <400> 5395

gtaccgatcc agaattcccg ggtcgacggg ttgatcctgc tgaaaatcag aaacttttgc 60
 acccaataaa ttagtttttg taatccaaag aaacgtgatt ttgatatgat gctttttgat 120
 atgtactgtt acacaagtgg tttaggtttt cgcaatttat caggatttgt ggagttacag 180
 aagtattcta gagttacagt ttactacaga cagttatgtt tctgacatat tctgcattct 240
 atgtgttgtt tgcttatttt gatgaatcca tgagtaatat gggagggtat gaaccataga 300
 gaagttggaa tacagtaaatt atttcacaaa tatgaattta gaatgagttc ataacagtac 360
 ctaagtgggtg atttattttc ttatactaac ggagcttacg agttttctgt taagttttgt 420
 gttgtgacgt tttcaagttt t 441

<210> 5396
 <211> 324
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E11
 <400> 5396

gtaccggtcc agaattcccg ggtcgacggg acgtcagtaa ttagcacaag gcgagtgatg 60
 ggcgccggtg cgccggcgga aactttgggc cggtcctttt taaaccatta gattaatgcg 120
 ctgatgagcg ttagataacc acgccaagt catcgtctcc acgcacaaat tctccctacg 180

cggaaaaaagt ggatcgtgaa cgaagtgcgg cccacacgca ccagctgttg tgccaccggg 240
 cgtgcgtcgc cagctccaac accatcagcc cccatcgtcg ccgtcacaga cctccggcat 300
 cacgggttcg catcacctca tcgc 324

<210> 5397
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-E12
 <400> 5397

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 gtccgtcagc cattggtgaa taagcaaact gctaccgatc ccagggtgcc caatcttgac 120
 taccgtccaa tcaggaacga tgcattggagc caaagaatga gagacaagta tggggtggat 180
 tcctttgatc caaacagggt tcaacaggcg acgatatctc ccgcagaaca tagaaacaga 240
 tgcacaatcc tctgatgctt ggtcgatgca gttcagtacc ggtctccgaa ttacagcca 300
 gctgtgcaat aacatcgact cgcattgtagc atgtggctgg gtgatctgat gtttccaagt 360
 tgtgttgatg gtggcgagcc cttgcaatcg cccgtcgtag ttctttcagt tacatactca 420
 gaaatctctg catctttcag tctttgcaat aattgaaact aa 462

<210> 5398
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-E2
 <400> 5398

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 tggttgatcg atatcattca ttacatgttg ggctgccgtt ttccgccctt ctccggaata 120
 aacgtgtact ttatcagaga taaaaaaaaat aagagtacag acgctccacc atgcggttct 180
 agtagtagta ctactcgtac taccgcgctt ggctctttgc ctcttcgtga agtcgaacaa 240
 tgatggtact ccgcattgtg ggtactacag tgtatgcctc tgacaatctg acaccgaatg 300

gactgatgca tgtccaccga gggtaggttg cattagtcaa aaggcgtaag cgagcttcac 360
 cttgtcctgc aagcttctcc tcgttctgcg agttgacggg acacaccana aagtagtgct 420
 agtccatact ccttccttt 439

<210> 5399
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E6
 <400> 5399

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 ggtcttcctt ggcagtagca ctttgcaaaa aggatcctta gtcagttgca acccttaatt 120
 aagtactcca acttagcata agctctgttc ccagtcctta ggtagaatac atcacccagt 180
 gttggccaag gacatgtttc tttgcttttc tttctcttta caagtcattg tcctctgatt 240
 tactccaact attttcacca acgcctgctg gagatgttgg atgatgtagc tgacactgct 300
 gtgtgttggg gctctattct ttgggtagag atgtgttgcc tgccctggagg atgcttgaag 360
 cagagtatcc cggagactag cagatatgat gatcgaaact tttatcttag ctttctgtct 420
 ctactacttc ctgatg 436

<210> 5400
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E8
 <400> 5400

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 tacgtcagta ggtgaaacaa tatctagcca atattttgat gacttgtact ggccattctc 120
 catcccaact ccttcaccta cattatcaaa ttcattcattg tcgtccctct tattgggttt 180
 gtacagcaca ccttccatgt tcaacctttc cattaccatc taaaacaca aatgaaacac 240
 gataagtagt tgaacaatta aaccatgttc aatacaactt ctaaattacc tgtgcacatc 300
 tttgggggat attgagaacc tctttgtgaa gcagctttat gtatgtcatc acacgggtcca 360

tactacaagt catgttcgat gaaaccgtgg acgtgcttgg ctttctactc ctgacaccac 420
ctttc 425

<210> 5401
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F10

<400> 5401

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ttgccaatga tgtggtgtct cccaaccat ggttgaattg gccggttccc atatggatca 120
ctccaagttt taataagatc cacaaataac taggtttcca gtataaggac gttactggga 180
agggaatgct cttgcttctc atcaataatt tactacagaa ctattctgac tggacatata 240
cgttgagctg ttgtttttgt tagggcaagc aagcagaaag aattaattta tctggtggtc 300
agcctggcga aggatttggg aaaatgttcc ctaggggaag gagaaaataa tgtttatggt 360
ggctgaaatc gaagttgctc tgcgaagaag accagatatc agtggaataa gaatgctctt 420
gcttctcacc aataatttac tccagaact 449

<210> 5402
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F11

<400> 5402

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accaggggag acgtaggatg ggagttcgac caaggcgaac tgatatggag gatagtgtac 120
ggcgaactgt ctatgtctca gacattgatc aacatgtcac tgaacagaag cttgctgagg 180
ttttctcaaa ctgtggtcaa gtggtagatt gccgtatctg tggatgatcca aactcagtga 240
tgcgttttgc ttttatcgag ttcgccgatg atgtcgggtg aagagcagct ctaacgcttg 300
gtggaaccat tcttggtttt tatcctgtca gagtctgcc atctaagact gcaattttgc 360
ctgtgaaccc caaatttctt cctcgaacat aggacgagaa ag 402

<210> 5403
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F4

<400> 5403

gggtcgacgg gccagcagag tgggtgctgca atcatcaaag cgaggaagct ctccagtgct 60
 ctctctgctg ctagctcagc ttgtgatcac atccgtgact gggttctggg aacccttgag 120
 ggaacatttg tttccatggg tgtgtactct gatggttcat acggtgtgcc tgctggtctt 180
 atctactcct tcccagtaac gtgcagtggg ggtgaatgga caattgttca aggtctcccg 240
 atcgatgagt tctcgaggaa gaagatggat gcgaccgcc aggagctgtc ggaggagaag 300
 gcgctggcct actcatgcct cgcgtaaatc cacattggaa gggcagctgc tcctctggat 360
 gttttgaata aatgaaacct tccgctcctt agaaactctc gtctcccacc agaacagccg 420
 cacatcgcca tgcatt 435

<210> 5404
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-F5

<400> 5404

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 ttcgagcatg togtcaatca ccgagtagcc atttgatagg tgcttctccc tgctggggcca 120
 gctcgagtgc tgggactcga acttggcctt gagctgctcc tcctcggcct tcagaagcca 180
 gacctgctcc atgtgccggg ttgcttggtc cgccagctcc gtctcgagcc ggtcgcgcgc 240
 catggctgcc tggtgcatt ccagctcctt agcctggagt tggctctcga gctcatgcac 300
 gcgggtcctc agccggggcg cgacctctgc aaaagcaagc aagaatcatc aacatctaca 360
 tcagcgaaaa caagaagctt tcagagaaga ttctgcctga ctactcaaca gtcggcccga 420
 atctcggngg gctacaccag ttggtgcgct 450

<210> 5405
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-F7

 <400> 5405

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 aaactcagtg gtgaaacaac tgttcaaaat gctgttacag aagtcgctgc catgggttggg 120
 gagaatgtaa aactcagacg aggtttcatg ttgtccacga ctggacatgg tgtcgtttca 180
 tcttatctgc atacctgtcc tcagccaggt ttgggcccga ttgctggatt gattacatta 240
 gaagcagaag atagcagtgc ttcccttgat gctctcaaga gagttgggtc gtctatcgca 300
 atgcatattg ttgcagcaaa accattattc ttatcaaaag aattggtttc tgctgcagct 360
 ttagaaaatg aacgtgacgt gctccgaact caggctgaaa gttcaggtaa accccaaatg 420
 gccatagaga anatggtgga aggccgat 448

<210> 5406
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-F9

 <400> 5406

gtaccggtcc tgaattcccg gtcgacggg tacttcacac acttttgtgt tttgtctaata 60
 tgcaggtgta tgggacattt gtacaatcca catatgaaga taaggaagaa agagatgttt 120
 atttgcgtgc caaaaagttc tctcacgtca cttttggccc aagagaagat agagtccaag 180
 tctctcacgt tctggattca gattcggact gcacagacac acctgactca aaacgcacac 240
 aagtgtttca tacggactcc gaattgggtg attctatattt tgttggaac tagatttcgt 300
 gaactttcca acccaattgg aatcaccttc aaattcgtcc ggagcgttga gttgtggacg 360
 aaacaatgtg atgctgcagc agaatccgag tcaaactaca agtccaaagg tgtaacatca 420
 cct 423

<210> 5407
 <211> 279
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G1

 <400> 5407

 ctaccgggtca agaattcccg ggtcgacgac gactcctact acaccggagg tgcctactac 60
 tacgtgcagg ccgctgacga cgaccaggag tagtttagga ggatcccagg caggaggcct 120
 gcgcctcttt cgatctgtat ccagtttgt gctagccatc ttatggcaac ttgtttaact 180
 tatgtctgta ctcagatatt gttgcttccg ctgactcgtc tatgatcgag cacttgatt 240
 cgagccctcg aggccctgg cttgtattat gatgcttgt 279

<210> 5408
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G10

 <400> 5408

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 ggtgacggct tcacgactt cagcgagttc atctccttct gcaacgcaa cccggggctc 120
 atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgatccag 180
 gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
 ccgatccagc ctcagcttca cctgaggccg gccctaattt tgtttgatca attttttgct 300
 actagtagta actagtgatg atcactgttg caccatttat ttattttata tcgtcacaac 360
 tttccagtgt ttcttttctt tctctacctt tttgtcgatc gtcggctcca gtcgatcga 420
 acgatccatg ctgctaattg tttgtgta 448

<210> 5409
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G12

 <400> 5409

ttccccgggtc gacgggggat tctcaggtgt ttcagcaata ggttcactag aagcatgcaa 60
 agtcctatca tttttctttt tcttctttt agaaggacta ggtgcctcaa tattatttct 120
 ctgagaatct tgctcaattc tattaggggtg gccttcagga tacaaatgtt cctgagtcac 180
 tctaccagtt ctagtagcca ctctaacagc ataatcatta ttcttactat tcaattcatt 240
 gagcaaatca ttctgagctt taagtacttg tctacttga gtggtaacca tagaagcatg 300
 tttagtaatg agtttaagtt cacctttaac tctagacata taatcaccca agtggttcaat 360
 catataagca ttttgtttta attgtctacc aatataagca ttgaaatctt cttgcctaac 420
 cataaagtta tcaaactcat ccaaacat 448

<210> 5410
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-G5

 <400> 5410

gtaccggaca agaattcccg ggtcgacggg aaagaggatc tagctgggtg gcggacggag 60
 taggggtgtgg ggtttcatca tgggttttcg cggcctcggg gtacgaatgg gtgggcggat 120
 gggatggtag tggggaacca tggcttagag acgcgcttgt ctgaaatgtg gggtaagtta 180
 cgaaagtacc cccaccgatt tgaggaggtt ctttcgggtc aggggtacca cgggcatttc 240
 gcgtgtcggg atttcacagg aggtgggagt tttcgcgcgc gttgtaattt cggaatagca 300
 aggcacgggt tgagatggag ggagttgtcg gagcacaaca agacaaagat atatcttaaa 360
 tatttcgggc taacaaggcg cgggttgaaa tttcgggaca agcctaacat gtacntgtac 420
 anatcaatgc gccctacana tgtc 444

<210> 5411
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G7

 <400> 5411

attcccgggt cgacgacgag gcgcatacgg tgactttgta aatcttaaga tgatgtgcca 60
gctcagtctc tcgaaagtgc ttataaaaat aggggtgtgtg tgcattcata ggggtgaatg 120
tatgtgcgta tgtatgagcg cttgcatctg ataaaaacaa ctactctcac gacaactcat 180
cataatgggtc aagggcgaga cggtacacgc tccgcactaa gaaaatcctg cgcggatcgg 240
tacgacgtga tgtattacac cactcaccgg ctaaccgggt cagtgataac tatcaacatg 300
gaataacaat tgaagttatc actgaccgtc cgctagctga aggcattgtgc aacaaagaat 360
aaacaacaac acacaattac agaggcaaca cagaagacat gaagacatgc acatataaac 420
attggtgaac attcgattat c 441

<210> 5412

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H5

<400> 5412

ggtacggaca agaattcccg ggtcgacgac gacggggggc tgctgctgcc gccacttccc 60
gagaacaacc gaccgggtgca gtcccctgaa gaggttggcc ggctggattg cgtgccagcc 120
atcttcgatg agtcccagtc ccgggacaag atgtgtgttt tctccgtatc agcagcaaga 180
gtttctctag atgaactgaa tgaatcagca gtgcttttgt gcctcgaatg gtctccgtgt 240
ccgtggcgac cggagctcga gtttcttctg gcaaatacct ccacggcacc ggtgaatcta 300
tcccggatct cttgtcctac tgaaagtctt tctgttctct caacagatgg cccaactcca 360
gccaatcttc cactcggttg tcgaacaagc ttgttactgg aactcatatg aggatacttg 420
agtgcggtcc agtcaaatac ataatcaaa 449

<210> 5413

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H7

<400> 5413

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gatgaactta tgatgtctac agaaggtcgg agctttgtgg atggtggcat gaaggagata 120
 gaagctggag gtagaggata cagaagaggg gcaaagtatg atttcatggt ttatggacag 180
 gacaactcaa tggacaggag gagctccttg gaccccttg ccgaggcgca ttacaagaga 240
 cccactcctc tagaggaaaa gaagaatgtg cacagtatgg gcgatgagtc cttcatgata 300
 cctgttacct ccaactcaca tgataacctt ggagcagccg gccgtactgc cattgacatt 360
 gatgccgagc ttggctcaag tgttcagaaa acatcagatg ctaaggctgg cgctgaactt 420
 ttctatg 427

<210> 5414
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-A1
 <400> 5414

ttcccggtc cacggggagt gcgacaaagg tgccatggcc gccatagccc agtctgcgcc 60
 ggattctgtg ctgatgacat tggcggagtt tgagacgaca agagaggcgt ggaatgcact 120
 caaagagatg aggattgaat aaaatcgtgt cacgaaggct cgggcacaag tgctgaagcg 180
 ccaagttcac aagttgcaga tggagaaaag tgaatcgggtg aacgactatg ccatgcagat 240
 ggagaaagct cgacgagacc gagattgtgg agaagttttt cagttcggtc actgataaat 300
 tcacgtacat catcgggacg ctcgagcagc tttacgatat cgacgacatg accataacgg 360
 aagcgatcgg atgcttgccg acgtgggaag agaatgctcg tggatgtcgg aaacgcaaag 420
 gaggaggtga tgaccaactc atgtactcac gcgc 454

<210> 5415
 <211> 463
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-A10
 <400> 5415

ggtcctaaat tcccggtcc acggggagta gtttaacaca gaccttcggg tgcctagtta 60
 ttagctagat ggcttcttct ctctcttttg atctcaatac aaagttctcc tcaatcttct 120

tggagatcta tttgatgtaa ctcttttagc ggtgtgtttg tcgagatccg atgaattggg 180
 ggtttatgat caagattatc tatgaacaat atttgaatct tctctgaatt cttttatgta 240
 tgattggtta tctttgcaag tctcttcaaa ttatcagttt ggttttgcct actagattga 300
 tctttcttgc aatgggagaa gtgggttagct ttgggttcaa tcatgcagtg ctcgattcca 360
 gtgatagtag gggaaatgac acgtattgta ttattgccat cgaggataaa aatatggggg 420
 ttatatcata ttgcttgagt ttatccctct acatcatgtc atc 463

<210> 5416
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-A11
 <400> 5416

ggtccaggat tcccgggtcc acggatcacc ggaaaacgac atcctccagc tcctttttca 60
 attcctcaca acttttcttg aaagcagcca tggattcctc cacctcctgc tcgcactcga 120
 tccggagctt cctcaagtca cccatcagtt cctcgacgac cgctgtcagc gtcattccca 180
 aggcactact ctgctcatgc agcatcttcc tgccaacggc ctctctcttc tcgccgaacg 240
 ccttgaggat cttcgcattg tcatgatga gttgctcaat gaggcgggtc tccttggtcaa 300
 ccgaggcacc tctgatcttg agcagcttca tcaagccgtt gaccagctcc tgctgcttag 360
 tgacgccagt gagaatgtca tcgtccccgg ccaaagactt ccggaatgcc agctcatcgc 420
 gatggccgac gtcgcgagtg cgcttgtgag agccctcgcg tgcccg 467

<210> 5417
 <211> 470
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-A2
 <400> 5417

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 atgctcatag ggatagggta tgcgttcata ggggtgagtg tatgcgtgtg tatatgagca 120
 ctctatttg taccgtgtta aaaaaagatt ccaagggtccc aaagataatg aacttgatta 180

aaaatttgtg tatataaatt cattcttttt agataaaagt ttgaatttaa tttggttggt 240
 gtgcgcaaaa cctaggctat agtgcaacgc ctagacgaca catgggagcc tcagcagcaa 300
 gccactgtga tggactcttt ccaacaaaaa ataaatctaa aatctttgtg aacatataat 360
 ccaaataatca gataataaac ttgatataac agattaaagg taattacaca ctggtgctag 420
 aacttgccat gaatgtgcac tttagtgcct gaacttgcaa aatacattta 470

<210> 5418
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-B10
 <400> 5418

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 gagggggata cgtccggatc tgtaaccagc ggtgaggata gaaagccagt gttttttgaa 120
 gggagaaaga cagtgttact acccttatct tgttttagatc tggagaggat gagagtgtgt 180
 gaatagagca atcctagcaa gcaagcgcga aggctccggc ctatatatac gtagtggggt 240
 agttttcctt tttcactcca tcaaaacaat cgttttaaat tgtgtactac tacatgccag 300
 gtcgcatttt tttagtgtgt gattgttttt tgagatagct acccgcttgt tccaagtgg 360
 gttacgggtgt gccaaagtcgc actttgtatc gttcaagtct ggtactacaa gtccctccat 420
 taaatgaaca acaaccctc gtaaaattgt gagcaagcca c 461

<210> 5419
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-B11
 <400> 5419

ggtcctagga tccccgggtc cacggggaga tctaagagga gaaccaccgc ttcgagaggg 60
 gtcgtctgga gcggtagagg gcgttcgagg tgagcatcgc tgaaggtgca gcagcggcag 120
 gcaccgtatt gcagtagtct agttcgtcag tagcctcctc ctcctcttcc tcttattgag 180
 cgcgcttggc agaggagagg ctaccggaaa tagtaciaag cccctccgta gtagtattta 240

ggggctatatt tgttcagttc atctgactat agatgtggtg gaactgtaca acatacttaa 300
aagtagctag tatatatagt tgaactagct atttcagtac gtggttggca acaattgggg 360
aaaaattcgg tcgattcagc tataaagttg aacggttttt aaaaattaag cacgactact 420
taatctatga atggaatcta tgcttaatta ctgaatttta gttgcaaa 468

<210> 5420
<211> 491
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-B4
<400> 5420

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tcttgaagac attttctctt ggtctggatt tgggcatttt tatatcgtgc agtccgcagt 120
ttacctgcat ctttcgcttt gaagagtgtc catttgctat gtcatccacg agatttgttc 180
ttgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaga aaaaaaaaaa 240
aaaaaaaaa aatgaaaaaa aaacaacttg gaaaaaaaag aaataaaaaa aaaaaaaaaac 300
gggccgccca aaagggttcca accttagtta cccttgaatg gaaattcaaa acccttcaaa 360
agggtcccca aaattcaatt cacggggcgt cgtttaaaaa catcgtgacg ggaaaaaccc 420
ggggggttacc aaatttaacc cccttggaag aaatccccct tttccaagcg ggggttaaaag 480
cgaaaaggcc c 491

<210> 5421
<211> 467
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-020-Q1-E1-C11
<400> 5421

ggtccagaat tcccgggtcg acgggatcca tctcatcttg gaaaagatct cttgattcag 60
tgaagcaatg aaactgacac cataatattt tgaattaaaa tcagaaatca ttttcctctc 120
ttggctaagt aaaaggaagc ttgtatgtaa aacaattatt tggttaactga tatcatcaag 180

aaagctgtgt ttctatcatg ttttcacctg catacgtgat gcatagcagt acaccattat 240
gtaagaacta gagctcgaat ttacatgagt ccattagtct ccagatctag caatggctcc 300
tataagtatg caattcctat aatgcagtta tattctagac aaggctcctga taaagaactt 360
gattactacc aggataacaa ggtgctaata aataaaaaata gaaggcgcca atgaactaaa 420
ataatagaag gtgctaata tttatgtttc ttaactaaaa tgcaaaa 467

<210> 5422
<211> 474
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C6

<400> 5422

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tgatttcatt tcctttcttc tttgagggca ccaatgctgc taatacattc cttcatcgaa 120
aacttccttt ttgtgaaact tgtactatta tgtgcttatt attgtatatt ataataagct 180
tattgtatat tataataagc acaatttccg tcttaattga gtgcaaactg tgccttcttg 240
tttttttcat gttctttctt cttaaagtgt aataccaatg ccattaattc attccttctt 300
agaaaacttt gttattttta tttgtttcag catttggttt attttctttc tatgagggta 360
ataacactcc cactacttca ttcccttctg agaaactttc tttgcgaaaa tttcattatt 420
atatgcttat acttgcata tatanaggct acattttttg tgtaaactgt gtgc 474

<210> 5423
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-D11

<400> 5423

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gttaagagag acctgaagga ttggagtatc gacaaagagc tagctatgga caggggtgag 120
tggaagcttg ctatccatgt gccatagcca tgagttggtt gcgagatctt atgggtttca 180
cctctagcct accccaactt gtttgggact aaaggctttg ttgttgttgt tgtttcattt 240

ttttatgaat gtactgttca tgagggtgta ggggcacccg ggagctgtta gacattttctc 300
gaaactgtat tgattttttt attttaagat ttggcttaat ctgaccaatt agattaacac 360
attctttttt aattgctatc agaattgaga gatccagcaa agatatatgt caaattgttt 420
attgtctagc tattgggttc tattgatatt catgtcaaat ctctattgat gatcatttt 479

<210> 5424
<211> 447
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-D12
<400> 5424

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cttatgagtg tgttgaatac taagagaagt ttgatgcttg atgattgttt tgagacatgg 120
aggtagtgat atcaaagttg tgctagttga gtagttgtga atttgagaaa tacttgtgtc 180
gaagtttgca agtcccgtag catgcacgta tggtaaactg tatgtaacaa atttgaaaca 240
tgagggtgtc tttgattgtc ctcttatga gtgacgggtc gngacgagcg atggctcttt 300
cctaccaatc tatccccag gagcatgcgc gtagtgcttg gtttttgatg actttagat 360
ttttgcaata agtatgtgag ttctttatga ctaatgttga gtccatggat tatacgcact 420
ctcacctttc catcattgct agcctct 447

<210> 5425
<211> 413
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-D2
<400> 5425

attcccagat cgacgggacc tgggaggtgt cgctgccggc ggaggaggtg ccgcccagac 60
tgcccagacc ggccctcggc atcaatttcg cccgcaacgg catgaaccgc cgcgactggc 120
tctccctcgt cgccgtccac tccgactcgt ggctcctctc cgtcgccttc ttcttcgggg 180
cgccgctcac cgccaacgaa cggaagcgtt tggtcagcat gatcaacgat cttccaaatg 240

tgtatgaaag tatggttgac aggaagcaca gggacaggtc tggtgttgat agcagtggca 300
aatccaggca ctcatcanag ccaaagcagc gaactgatga tgtccgcaa agaactccag 360
ggcagttgcc cgagaagaag acgaggacga nggacaagaa gaacacagcg aaa 413

<210> 5426
<211> 482
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-D9
<400> 5426

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aggagggcga cggcaagaag gacggcgacg ggaagaaggg ttgggcggcc tacatcgagt 120
ccgtcggccc ggccaaggag cccgagaaga aggaggagaa gaaggaggag gccaagaagg 180
agggcggcga cgccaagaag gaaggcggcg acggcggcga cggcaagaag gacggcgatg 240
ggaagaagga cggcgacggg aagaaggacg gcgagaagaa ggaggagggc gacggcaaga 300
aggacggcga cgggaagaag gacggcggcc tacatcgagt ccgtcggccc ggccaaggag 360
cccgagaaga aggaggagaa gaaggaggag gccaagaagg agggcggcga cgccaagaag 420
gaaggtggcc ccgtgtcgt tncgcacca catgccgctg ccgcaccaca tgccgccgcc 480
ct 482

<210> 5427
<211> 474
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-020-Q1-E1-E11
<400> 5427

cgctgcggt accggtccta ggattccccg gtcgacgggg acgcagaaga tcgtgatccc 60
gccgggcaac ttctggttg ggcgctgga gctgtcgggc cctgcacct cctccatcat 120
catccggctg gacggcaacc tctcggcac cggcgacct accgcctaca agaagaactg 180
gatcgaggtg atgcgctgg acaacttcgc catcaacggc cacggcgtca tcgacggcca 240

gggccccctc gtgtgggaga agaacatgtg cagcaagcac tacgactgca agatcctccc 300
 caacagcctg gtgctggact acgtgaacaa cgcgacgac cgcgggcatca cgctcaagaa 360
 cgcaaagtgc ttccacctca acctcttcaa ctgcaagaac gtgctgggtgg agaacgtgga 420
 gatcacggcg cccgggaaca gcccacacac ggacggcatc cacatggggc actc 474

<210> 5428
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-E2
 <400> 5428

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 cagcaccagt tctgggcggc ggcggttttag gcagcggctg cgacggcgat tcccgcattg 120
 gcgggtggtga ttgaggctcg cggttgctgg ttgagcctgg tggcggctgc gctgtgaact 180
 ccagttcatc ctttactgtc aacgttaccc tcagcccggc aagttcccaa gttggcggaa 240
 ataaaagagc aaagaaagtg ccagcaaagc taccagacta gtgcttggtt gttgctgtct 300
 gttcttatgt cagaccatgt gagaattcat gggtatcgtt gattgtaagc tatattcagt 360
 attatttccc ttcccatctt agtactttgt cagactatgt tcaactaaat tgggctcaga 420
 acatgttcaa ctaaactcaa tacaatgccc cc 452

<210> 5429
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-E3
 <400> 5429

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 agtagaggaa acataacgca ggatgcgctt aactgccgag agatgagtgg tacgaggtgc 180
 atgcagatac tggcacacac gggtgactgc ataagagaca tcaggtctgg tgatagttag 240
 atattgcaga ccaccaacaa ggctgcgata ctcagtggca tcatcagtgg aaagaagatc 300

ccatcaaggg cagacaaccg gtcagtggca gacatcggag tgatagcatg tttgcattgg 360
 agcatcccag caccgcccag caaatccgtt gagtactttt tctgactcaa agtccaacca 420
 gtagaagacc gtgacacctc caatccaaga aaataatgca aagcacca 468

<210> 5430
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-E5
 <400> 5430

taccggtccg acattcccgg ggtcacggga tgaccgcaat gttctcctac acccttatcc 60
 tgcagctgct agccacgctc caaatctacg cagtgccatt catgactttt gtcacaacaa 120
 ctaagatctt cacgtacatt tgtcgtcct ttagatcct gccacaatc agttctgaca 180
 tctattattc tgacaattct tctataaata ttattttcat gccacaattc aacttcgcgc 240
 ttcgtagaag tgggtgcgcca ttaaataagct caactactaa cgtcgcacca caccaacggc 300
 gcgctataat aacttgtagc ccacgttctc agtgtaacac cgtggatgtg gtgcgccatt 360
 ccttttcgct ca 372

<210> 5431
 <211> 466
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-E8
 <400> 5431

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 ccggcctacc tacttcagtg atcgacaccg cgaccagcat cacttcacgt atcacagagc 120
 aggaaatggg taggatggac gcgaactgcg tgcagtacca gccgctgagg atggcgtacc 180
 aggccgcgca accggtcctc tgcttgaagt actcaaacca aggggacgac tacatccgtg 240
 aagcattgca ggacctcaag gagagttacg ctgcaggcaa tttgatatga aacaacaaga 300
 gattacgtct ccaggaattt gatagaggtc tgttttagg tctatggccg cagaggatcc 360

atcagtctta tttccatccg ccgctgtaat tatatattag tcagagtccg atactgaaag 420
 tggcgatanc ggagagatcc cttattacac acagcacacc tggagt 466

<210> 5432
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-F10
 <400> 5432

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 gccctccca ggtgttcttg cccttgacga ggcgtagggt gattcggttt cacctatcag 120
 cttgctgctg gccctttgtt tgggatctca tcttggtcta acgctggaac gttatatgtc 180
 ccaaggaaac tttgagatag gcttgtcgcc aatttttgtc agtaaatgag tcgtgaataa 240
 ttatcaactt gctctgtgcg agtgaagtga tgtgactgga atttaacgta cccccgtgga 300
 tgtgtatggg ttttaagatct gcatctttgt gtgctgcttc cttctgtgtt ttttgctttg 360
 cttattttgg aataaatttt tgtc 384

<210> 5433
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-F11
 <400> 5433

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 tgtgccactg atcagcgagt gaatcacgag ctgctctgct cgtgggtccag ccgcgcgtgt 120
 gtgcgagact aattatttct tcgtctgac accgtatgat cggcgtgttc atttggtgtt 180
 cacttgtgct tctgactgaa gccgcgtgtt gtacagaata cagagctatg aagaaacca 240
 tttcgccgtg attatttgga taacaaaaaa acaaaaaaag aaacgcaaga ggcgcaaagc 300
 gcaagcagac gcgggaaaga gcacaaagca aaagacaaaa gaaaaaaaaa aaaaggggcc 360
 gctctaaagg tttcaggctt acgttcccg gaatgcaact tcatacccct tcaaaagggt 420
 caccaaaatt caattcacgg gccgtcgttt taaa 454

<210> 5434
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-F2

 <400> 5434

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 tcatccggct ggacggcaac ctctcggca ccggcgacct caccgcctac aagaagaact 180
 ggatcgaggt gatgcgcgtg gacaacttca ccatcaacgy ccacggcacc atcgacggcc 240
 agggccccct cgtgtgggag aagaaccagt gcagcaagca ctacgactgc aagatcctcc 300
 ccaacagcct ggtgctggac tacgtgaaca acgcgacgat ccggggcatc acgctcaaga 360
 acgccaagtt cttccacctc aacctcttca agtgcaagac ggtgctggtg gagaacg 417

<210> 5435
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-F6

 <400> 5435

cctgcaggaa ccggtccgaa attcccgggt cgacagggac tggcctccaa gggccaagcc 60
 cctggagaga tcgtaagtat ccggactccc gaataacttc atggtttttc tttttgccac 120
 ataatgtctt tctaattgcc catacaaccc tgcagtccgc ccaaggatga tcttcccgt 180
 tcgtcgcatt ggtccttagg tgcgtcggat atggattctc ttccgactgc ctccaccccc 240
 cgtgatgcgg acgatgccga ggtgggatcc cggaaggta cccactcgga ggaggaggcc 300
 ccggaggtgt cgctggacaa cctcccggac tttgcaccgg actcggcccc ggaaccata 360
 gtggctccgg agtcggggcg gcgaccctt cgtaagaagg gcaaagacgt gacg 414

<210> 5436
 <211> 481
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-F8

<400> 5436

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gagaagtggc ctgagagcaa tagatggaat accatctacg tacagcagga caatgctaag 120
actcatataa aaccagatga tccacttttt ttgcaggaag ctgctagggg tggttgggat 180
attaggatga tataccaacc acctaattct cctaacacaa acatattaga tcttgggttg 240
tttgctcaa ttcaagcaat gttccataga aagatgccca agaccctagc cgagattgtc 300
caaaaggatg tgcaactgatt agatcttggt tggatttctt tttatgttct atgtgatata 360
tacctatttg tgtatgaact gttttgagtt tttcatgtca tgtgtcatan gttaattaat 420
ccctagctga gtaccccatc aaaggctcaa taggatctgg ttgagtcac aagcgtgcat 480
g 481

<210> 5437
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-F9

<400> 5437

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ttcgtcctac tacaagggtc ctttctcaaa aaccgtctac attgaaaaaa actgattttc 120
gcgtgaagga ctccaaagat tactatggat tggctcctgg taaatctgcc ctgctgaggt 180
atgcattccc gataaaatgc acagagggtta tttatgggtga taatccagat gatattgttg 240
aaattcgagc cgagtatgac ctttcaaaga cctctaaacc taagggtgtt ctgcactggg 300
ttgccgagcc agcacctgga gttgagccgt taaagggtga aataagaata tttgagaaat 360
tattcctctc ggagaatccc gccgaattga aaaactggct ggggtgaaatt aaccgcact 420
caaaggaagt aatcaagggc g 441

<210> 5438
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G11

<400> 5438

ccggctcctag attcccgggt ccacgggaat tttggacatg gcaggctcag tcgtgttggc 60
gaggcaggcc ccagactgcg aggtggttgg ttggttaagct cgaggatgaa cagtggaagg 120
caggggagga gacgaagagg caagtgtgaa tcgaggctga aaatttggga acttgccctc 180
tgagagctgt ctaaaagagg aaacccgaat cgctggttgg gctggtccta tagctcaagc 240
ctcaattggt ggaaaaggaa aagttggtta ctaaaaaaat gggcacaggt ctataagccg 300
aggctcgggg caggcccagg ccatgtgacc caagttgcca cacccatagc aagtaattaa 360
cctgtttgaa accctgggtt ggcgccctca actccctaata catagcgatc attaacctgt 420
gtcgaagcac gagcattacc tcctgggtcac acagtcaaag cactttgc 468

<210> 5439

<211> 307

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-020-Q1-E1-G5

<400> 5439

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acaccgacgg tgacggcttc atcgacttca acgagttcaa ctccttccgc aacgccaaac 120
ccgggtcaa gaaagacgtc cccaaaggcc tccgaatcaa ttcaattcaa ctcaaccgtc 180
cgattcaaga accgattcaa ccacgtacgg gttcctataa caatttcaag caactaccta 240
caccggtccc gattcaacct caacttcacc tgaaggcggc cctaattttg tttgatcatt 300
ttttttg 307

<210> 5440

<211> 379

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G7

<400> 5440

gggccgaaat tccccgggtcg acgggagaca gcggtgtcta aggtggagta gaaggatgcg 60
gctgctggag cttttctccc tccgtgcacc caacaagcct ttgtgcaaaa tttgaaccag 120
acattgcttt tgtagaatta tcgttgctta gtattacgat tctctaaca ttcgcgcgcg 180
tatatatctc ccatacttat atatgtacac agtgtatata tcgcgccac atgtgtacgc 240
atacaatatc atagagtata ctcgacaaaa aaaaaaaaaa aaaaaaaaaa aaaagcgggg 300
gcgctctagg atatacagc atatatacgt gtatatgaga tgatcatatc cctctagagt 360
gtcacctatt cacatcaca 379

<210> 5441
<211> 479
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-020-Q1-E1-H10
<400> 5441

cgctgcagg atacgggtccg agaattcccc ggctgcacggg ttatcggaat attcaaatgc 60
ggcacttctt ttctactgga atgagatgaa ccgacagggt agagtagaag ggtcgggttca 120
gaaggctca gaagaagaat ctgagaagta tttccacagc cgccacagtg gaagtcagct 180
tggtgcaatt gttagcaagc agagcactgt ctttctgga agagaagttc tccaacaagc 240
atacaaggaa ttggagcaaa aatattctga cggtagcttc atcccaaac ccgattactg 300
gggtggctac aggttgacat caaatctttt tgagttctgg caaggccagc agtctcgtct 360
gcatgaccgg ctacagtatt cacagcgaga attaggtggg agtacagaat ggcacatcca 420
aaggttgctc ccttgatcag taacctcctt aaagctctcg cctcgtgggt aataaaagg 479

<210> 5442
<211> 376
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-020-Q1-E1-H12
<400> 5442

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caaggccaag gactcaccgc cagacccccg ctcgccaacg gcaggtctgg aatgttgcca 120

atgtcagagcc ctccagcaaa tccaggacag cttaccattt tttatggtgg gtcagtatgt 180
 gtgtatgact cagtgccacc agagaaggct caagcaatca tgctcattgc agcagcagca 240
 gctgcgccct caaaaagcaa tggcaccgct gctgttaagc ctccagcgat gtctgcgacc 300
 aatgctatcc aggccatgcc taagcggctg ctctcacttc agagcacttc tgtagcagat 360
 ggacaacctc aggctg 376

<210> 5443
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-H2

<400> 5443

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 gtcaccttcg ccactgccgg tgcctgacat tgggatggag ggggagggga acaaacaggg 120
 agcggagtggt aagcggcgaa gatggaagca aagagtgaag tggagctagg gtttgctccg 180
 ggtgggggatt ttagtgggga tagagtgggt aggtatgggc catggtggtc aggctgacgt 240
 ggcagacgcg tctaggccac cccatacccg ccctagattt aggctgggtt tgaggggtgc 300
 ctgtcagctc gaatggccat gtttgggtata nggagccga ctcggtcaaa ttttagtgac 360
 agtgcattga tcaggccatc taccgggtca gttttggcac ggaccggggc gtccaccatg 420
 acgtagttgc cacggtaggg gttgccgggc accatacacg acactagaga g 471

<210> 5444
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H9

<400> 5444

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 gggggctcct aagtcgggga tggccctgat taccaacttg taacaccac gatgctggcta 180
 tatctccac gtgtcgtagc acgacttaga ggcataaccg cattgtgggtt ttgtcgcaag 240

aagtgtcatc ttcaaacaat cccaagttat gaacaagaaa gggataaata gagttggatt 300
acaatcgcca cttcacacaa gtacttaaata aaatcatata tcattcagag tacacacata 360
gtccgactac ggacgaagcc aaaagaaaag aagataaccc aactgctaga ttcccgatcg 420
tcccaactgg gctccactac tgatcaacat gaaacg 456

<210> 5445
<211> 469
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-021-Q1-E1-A6
<400> 5445

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ttcagcttaa gcgtgaggcc cggatgaagg gtgggtttta tgtcagtcct gaggccaagc 180
tgctgtttgt tgtcagaatc agaggatatca atgccatgca cccaagacc aagaagatct 240
tgcagctggt gcgtttgagg cagatatcca atggagtgtt cctgaagggt aacaaggcca 300
ccatcaacat gctccgcagg gtcgagccat atgttgcata tgggtacccg aacctgaaga 360
gtgtgaggga gttgatctac aagagagggt atggcaagct caacaagcaa aggattcctc 420
tgaccaacaa caaggtcatt gangagggtc ttggaaagca caacatcat 469

<210> 5446
<211> 467
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-B6
<400> 5446

gtacggtcca gaattcccgg gtcgacggga agcagcaaag ttgagcatgc ggtgtcgcgc 60
ttgtgatgca cagtgtttgg ctccggtaca tcacagaggc cggcagcaag gaacacagct 120
tcctgccctt gcctctgtaa atcatcaagg aggaaaaatg tgcaagatgc ttgaagtttc 180
cccttgaaac gaaggctctg ggcctttgtt tgtacatata ttcccttgat ttgtactgac 240

tctccaatta attattcaga gagctatggc catacaagga aatcaaaagt ttcagttgca 300
 tgtagcaagg aaggtcaatt tgacacggcg gtgctgccat ttgccccctcc cttctccctc 360
 gaaaatgtgg ttgacgctcc ccagatcttc aggttgcattg acaagatttt tttcctgtgg 420
 aacatattgt gtatcttcca tcgggtcatga gtaaattcaa atcaaaa 467

<210> 5447
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-B7
 <400> 5447

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 ttatgttttg agtaagcttg caacaccacc acatgctatt aatcctgata tgtagcaagt 120
 aattaatgat gctacttctg ctatgaatga tggtgatgat gatgctagta cttttcttga 180
 taagattgtg ccactgggtg aatctcttga tgaacaactt gctagatcta aagaaattga 240
 gaatgctgaa accaatgaaa gtacttaaac tgatgaaatt attgaaactg gaaattttga 300
 ttcacctatt ggaactagtg ccactagata tgaatttcct gagatacctg aggggtcatgt 360
 tatggatgga gaagtagcta gagactttct tgcttgtaag gatanagatg atcttaaaaa 420
 attactacgc aggctgaaag aaaaatcttt g 451

<210> 5448
 <211> 466
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B8
 <400> 5448

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 gaaaccact tgattagaat ttattagaat atgctatgtg cttcacttat atcttttggg 180
 ctagatagtt tttgctctag tgcttcactt atatctttta gagcacggcg gtggcttaat 240
 tttgtagaaa tttctagtct ctcagtcttc acttatatta ttttgagagt ctcttagaat 300

agcatgggat ttgctatggt tatgaatttg gtcctagaat gatgagcatc caagttgggt 360
 ataataaaca ctatcatagc aagtgcatta aacactagga tcaatttgat gcttgataat 420
 tgttttgaga tatgaaggta ctagtggttag agtcatgcta gtgggt 466

<210> 5449
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B9
 <400> 5449

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 tagtttagat cgagtctgtt cttcatacct acagtccacg aaaaagccac aaaaaaatag 180
 ggtagttca tcatatccga accaatctga gcctttgcat aatcttttta gggtttttgc 240
 tttgttgaat ttgcgggtgc atcgctgtgt caagttgctg gtcttagagt ctagtctttt 300
 agagtttcga gttctgggtca taagttgtca cgccgccgcc gcaccatcat catcgccttg 360
 ccatctacca ccattgtcga tccgccaccg ctctgaatcc gtatctatat accaccaccg 420
 atccgtatcc atataccact accgctacca tatacc 456

<210> 5450
 <211> 486
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-C4
 <400> 5450

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 taacgttacg atgacagtta tattatgagt ttatatgttt tgatgtaccg aagggtgttc 180
 ggagtcccg atgtgatcac ggacatgacg aggagtctcg aaatgctcga gacataaaga 240
 ttgatataatt ggacgactat attcggacac cggaagtgtt ccggagaagt ttcagataaa 300

accggagtgc cggaggggtt accggaaccc cccggggaag tattgggcct tagtgggcct 360
tgaggggaga gagagggcag cagccaggag gtggcacgcc ccctcccatg aggagtccta 420
attggactaa gggagggggc gcagcccctc tttcccgcgc nctctccctc tctttccttg 480
ccccct 486

<210> 5451
<211> 469
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C5
<400> 5451

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ctgatgctga gacagaactc tctaattgctg agacggaacc ctctgatacg gagacagAAC 180
cctctgattc cgacaatgat ttgccaatgg aagaaacaac agaaactcct gaagaagatt 240
tggatgacct ccaaattggaa gaaacagacg atccttctga agaagaattc gatgatgacc 300
ttgtgatcaa cattgctcct cgcaaggcca acaactcagc tgcccagtta aatagggcaa 360
accaagcagt gaataaggac gagcgggttca gaaaacgtca gcactttgat gagatttctc 420
cacaaatgaa gagacagaaa cctgaggatt tatctgaacc tagaaacca 469

<210> 5452
<211> 470
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C6
<400> 5452

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agaacactag gatgactatg gaacggggccg ctttgatgc tcaggcgcaa cgaatccaag 120
ctgattcctt ccggtcttca ttggatcaga acgcttcaaa cgaagtcttg aggagaaggc 180
accggagtgc tctgcgcgcg gtttacaagg tgaggaacct cttcaacaca cctagtgtag 240
ggaccagtga cccgccaggg gtaaattcagg cagtagccgc gcttgggact ggagcgcgcg 300

ctcaaccgtg catgacaggc cgcgccagtc agaataatat cctaccacaa cacgtgccga 360
caccaccggg tcattactct aaccctttgg ataacatgat cgttgtgatg tcgtgactgg 420
cggatctccc agttgaaggc gagtctctag cggcggttga aacgcggaag 470

<210> 5453
<211> 464
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C7
<400> 5453

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ccccttcccc ctatatatac ttgaggtttg gggctgccat acacatgagt tctctccctc 180
ttggtgcagc cctacctctc tccctactcc tccctctccc tgggtgcttag cgaagccctg 240
ctggattgcc acgctcctcc accaccacca cgctgttggt ctgctgttgg atggagtctt 300
cctcaacctc tccctctctc ctgctggat caaggcgtgg gagacgtcac cgggctgtac 360
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<210> 5454
<211> 466
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C8
<400> 5454

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tctccacggg ctccatttca accaccctt catgggctat tgttcatcca gccctctacc 180
gtctactatt catccagacc tccacggggg ggtcctgttc atcctgcctt ccatggggtc 240
ctgttcatcc agccccaact ggctcgatcg atcgggggtc tgttcatcca gaggcaacac 300
cacgggggtc tattcatcca cccacaccag gaactgttca tccaaccccc ccagcaacgc 360

tcactgttca tccaaaggca gtatcgatcg gcttcagtta gcagcagtag cgaaggaatc 420
gttcgatcga gttcagttaa cagccatcga ttaatcgctc gggttc 466

<210> 5455
<211> 458
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-021-Q1-E1-D11

<400> 5455

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gagtcagtac ctccaactcc gtccctccaag tcgacaaaaa gaaatggcat ttaagtgtga 180
tatcttctga gatgcaatta caatctattc tctctctctt ttcttccctc ctcaaagagc 240
tgagactttg ctcaattgag catcaagctt tagggctctt tgtaaatctt ttttacagtt 300
tccaatttgt ggtagcaatt gtagtatatg gttctcctgt tctattcacc aatagaagca 360
caaaaagtga cagtaacact cttacagtgt tgctttggga caagcatacc atcacctgca 420
aaaaagatct tgtaagagcc anagctatta taggatga 458

<210> 5456
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D5

<400> 5456

taccggtcca gaattcccgg gtcgacggga gaagtattgg gccttattgg gccatacggg 60
aaagagagag ggtctgcta gggcaggccg cgcgcccccc aaggcctagt ccgaattgga 120
ctagggggag gggccgcacc cctccttcc ttcccttctc tcttcccttt ccttctctcc 180
tactcctact acatggaagg tctcctagtt ggactaggaa aggagggagt cctactcgtc 240
ctactcccgg tgggagtagg actcctccct ggcgcgcctt cccttggccg gccgccccct 300
cccccttact cctttatata cgggggcagg ggggcacccc ataacacaca agttgatcta 360
cggatcggtc cttagccgtg tgcggtgccc cctccacca tattccacct cggtcatatc 420

gtcgcagagt ttaagcgaag ccctgcgccg gtggagcatc atcat

465

<210> 5457
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D6

<400> 5457

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gctcttccaa cagaagctca agccgggtac ggctaccgcg gcgttataga cactcggatg 120
aacgcaaggg aaacaggcag gcgtttccga tccagtgaat cagtgtggc tgccaaactt 180
ttgaaagagt agattgtttt cagaagagtc tggctgttga gctgagtccc ttcttacttt 240
tgccggaggg ttatagtgtt gtaggattcg atggaacata ggtagagac acttgatatg 300
atgatatggg ttagttttcc catttgcaca gcaagctatg acacccccct gtgtttcttg 360
gaagatttcc ttttttattg gaagacacga tgatcctcca ttcctcctgt tatagaagtg 420
caaagacgtc ttaaaaaaaaa cagagaaaag tgaaaaca 458

<210> 5458
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D7

<400> 5458

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ggcgccctgc tgcgtcctgc acaacatctg cgagatgcgc cgcgaggagc tcgagccgga 120
ggtcccgttt gcgctcttcg acgacgacac cacgccggag acccctgttc gctctgagac 180
cgccaagcag gagagggaca gcatcgcgca caacctcctc caccgcggtt tcgccggcac 240
cacatttttc tgatcaaata acctcctgcc ctctccttgg cttggtacag ataaaaaatt 300
aaacatgtag cgaattcttt tagccgctag gatagaacat tttgttagga tttgtacacc 360
acgttcagag aaactggaaa ttcattgtaa cattctgtgg aaaatttcgg cagtacctgc 420
tgtcggttac tcggtttatt gtttaaagat atatatacaa tttta 464

<210> 5459
 <211> 468
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D8

<400> 5459

tacggtccag aattcccggg tcgacgggac tcgaaaagac gtctcgaaca gcgaccagtc 60
 tctcgcctta tcatgacagt cagtttttagc tttctccact gaggcgctcg cccagctcaa 120
 ccggggctca atcgcagtgg ttctcccagt gctaccttag ccgacagaat ggaacgtaag 180
 gtacaaaaac atgggagccg ggcaaacca actattgacc caaaacatga ttcggagccg 240
 atgcatataa tgctataagt tcgggggtgcc gcacttgtga aagtgttcgg acttatcaca 300
 ccataatgcg gggaacacaa gcccctggtg tattctgccg taccaaaata tacgggtgca 360
 agatgtcatt aatgaacata tatgtaaaaa aggtaatgca attataggca aaaattgatg 420
 cattgtttat tcaagagatt ctgccatgag tgcagaacga tacaatag 468

<210> 5460
 <211> 469
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-E8

<400> 5460

gtacggtcca gaattcccgg gtcgacgggc cttatcaacg cttgcctcgt cggatatgggc 60
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 agagacactc gcacttgggc tccgctttcc atgcgccgat acatacatag atggcatcgc 180
 gggttaggga aactccaacg aggcacacca attctgcatc cctaaatatc cggaccgaat 240
 agtctggaag accgtttggt catcaatcca atgggagtca ccaaatatcc acggaccagt 300
 tcggatgtcc ggaatcccac ataaaccgaa taggattgat ggggtgtgggg gtctcgccaa 360
 aaaattgctt aacgggtcaa cggtacaatc gcatactcat attaaccact cgattacaaa 420
 aaatgctatg ggagtagcat ccattagga catcgggctc aattcacga 469

<210> 5461
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F4

<400> 5461

aaaagccggt ggaatcgaaa aggcggagaa ggtgatgggc tggattaatt tgatggaatt 60
 tccacacgga tatacaatag ccttctagtc tgaggtctgt ggtgttgttt gtggcagtct 120
 gtgaccctt ctaatgtcag gcatgcagtg tacataacgt gcaacctgag attgttgat 180
 taggagaaaa tagaatttgg acgctagtgt ccgagtttga gcagtatggc accatcaaga 240
 tcccttgatga tcttccctca aaaaaaaatc ccttgtgatc cattatgcag tggggcctga 300
 ccagcctttt acgtttgtga gagtcgaatc ttgtgttggc atgtggaatg tttgtgtctt 360
 tgtttcagag caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcggccgct ctagaggatc 420
 caag 424

<210> 5462
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F5

<400> 5462

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 ggtcgtggct tagaggggag aatgttagga ataagccacg catgagtatg tgctcatgtg 120
 tgtgatctgc atgcatggat ggattagtta gctagctatg gagccggcgc agctgagtcg 180
 cgtggcagtt ctgctggag gaagaatagg aagcaatagt tgaggcttgg tcctatacgt 240
 gtgtatccaa agattctgga gacttggctg ttaccaagc gtgtgtagct agcccggtga 300
 gtactaatcg gatcaagcaa ccgtgggctt gaccatgcat acgtgtgtgc gtggggttag 360
 tgggtgtgtg tgagtcttgt acttggctat ataagttgag taaatgaatg agaaaagtgg 420
 ccgtgagggc tggat 435

<210> 5463
 <211> 472

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F6

<400> 5463

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gactagctag acgcgctagc tacctagtag gcagacagga tatcggtcatg aacaaatatg 120
catacagaga gaagtgatat cgaccacctc tccttctccg agagattggt cgaacagaca 180
agttctcgta tatctatcgg agactaccgg ctagatatag acaatagata tataatcgcc 240
tacagtacgg acgcgtgggc tacatactat tctccgtctt cagcgatcac gtggtcaata 300
aagaatgccg ccaattcctc ttgaattgct cgcgtgcgat ctgggtgctac gagttcatcc 360
cgcatcagag acatctaatt ttaatacggg gggtcaatata tagatatata tatatggatg 420
aatgagactc atcacaaatg atggtaacta catgaaactg tgaatactgt ta 472

<210> 5464
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F8

<400> 5464

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tatttgatta gaatttgcta gaatactcta tgtgcttcac ttatatcttt tgagcttgat 180
agtttttgct ctagtgcttc acttatatct tttagagcac ggtgggtgact tatttttgta 240
gaaattatta gtctctcatg cttcacttat atctttttga gagtctttta taatggcatg 300
gtatttgcta tgggtataaa attggctcta gaatggtagg catccaagtt ggggtataata 360
aaaactatcg tagaaagtga attggatgct atgggtcaatt tgatacttga taattgtttt 420
gagatatgga tgtagtgata ttaaagtcac gctagttggg tga 463

<210> 5465
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G6

<400> 5465

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gagcgggatc atgatcacga gaaatatata tataggataa taaggtgggtg tattgccgcc 120
atgtccgttg agctgatgtt tgtttcagct agagaaatcg ttacgcccgc tcataatttt 180
tcgacgctat ggaaaataat aactactggt atatcactct atatcaaacc ggcttgtgaa 240
ataaatgggt ggcggccggt tttttgtcgt cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaagaaaa aagcggccgc tctaaaggat caaaactcga gcgtatctat 360
gaggttccaa gcttaagtac ttctacatgg taagtcaaat tcaattcaca gggccaccta 420
atttaaattc atgggcggta attt 444

<210> 5466

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G8

<400> 5466

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ttccaaataa aagttcagtg tcatgacggt gggaagaaaa aaaatttgct gctcttaagg 120
ctgcgatgac agtattgttg ttagttgtca gcatgttgca tcaactgtgtg gtgtatgttg 180
gatgttggtg gaaaaaaaaa aaaaaaaaaa aaaaaaaagc ggcggcccca caagatgatc 240
gatgcttacg tctctctgca tacgacatca tacctctact atgtcgtcaa ctatcttcac 300
atcgg 305

<210> 5467

<211> 414

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-021-Q1-E1-H12

<400> 5467

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agcagtagct acagccctgt cggctgccgt agacgccctc tcggtggaag cggctgcgct 120
caatgcggat gtggcggcac tctcggtgta ggcggccgag ctcttggtgc aggcgcggcg 180
ctcggggggg ggggggcgcg gccatcgtac tggccttcac gaagcgtttc cacgacgtca 240
tctttgcaag aagggggtgc gggaatggg atcaggattc atggattcgg gggttgccgg 300
aacaggagta nacgagccgg cgaagcttaa agagggagac ttaaatagac ccagatattt 360
tcatcgcaaa cggttcctag aaaagaactg tgtgtgatgt cgtagataat tttt 414

<210> 5468
<211> 469
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-H7
<400> 5468

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ccccgccgat gcaggtgagc gcgagctact acggcgccgc ggagctcgac cgggccaccc 120
atcagcacia gctgggtcaag ggagacgaca tcgagggtga tcttgatcac atgcacatgg 180
gggtgggcgg ggacgacagc tggacgccgt gcgtgcacga ggagtacctg ctgtcgccgg 240
cggcgagcta caggttctcg ctgcggctgc gccccctgtc gccgtcgtca tcgtgccacg 300
acatctacag ctcccggcta cctaattgat cgteccatct gtctgatgtg gccgtcagag 360
gtcgtctga gagagaaaga acattcgaga gactgaaaca atactgtccg agtcgctctc 420
gctcgtgtaa acgtaagaag actgtaactg gacagggtacc tgtcaataa 469

<210> 5469
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-A1
<400> 5469

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gggatgcaag aacagagggg caagatccaa gtcacgggtc gcaaacactt ccataagggg 120

ggcaattttt gcaactagaa gattaggggg gaggtacaga gagggaaatc aactagttct 180
 aaaactaaaa gaagttcatg gccagaaaat tttggaacaa caccttttac ctttttgttt 240
 tcacttggga aacttgccca actatgccaa ttttttttg caattctcca gatttatgc 300
 ctggtcagca cggagaattg cagacacatt tgcgttttca aaaaaatatt cccacagatt 360
 ttatgtcttg atttctcgtc ctttttacta tgtttttcaa tgtgcaagga gagctcccca 420
 acg 423

<210> 5470
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A11

<400> 5470
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 ttactgtaga ctttggtaat gacaaagaag tcctgggtcg gataggcctc gttgtaggca 120
 acaccttcga cctccagaag aattggctgg tgcctctcgc tcagccttca atgctgaccc 180
 tggcaggagc catggttcat ccttcgtacg gtaaactgga gaaacctcca tacacatttc 240
 atcgttatgc atggcagcag aatgtactag atatagacca catccactac cctgcaatgg 300
 atggctacct ttgtttcaat atctacaagg gttggatgaa gagcaagagc caagtgtgtg 360
 gttcaagcaa agaagtatcg tccaag 386

<210> 5471
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A2

<400> 5471
 cctgcagcta ccggtccaga aatcccgggt cgacgggaag actagtatga atgattcaaa 60
 ggagaaggat gagaaaaaga aagaagatgg cgacagctca caaaaggaga aggccaagac 120
 agggaaagat aagaagagcg agagcaaaga taaggataaa attagcgtca aggagactgg 180
 atctgatgca gatgacagta cccccaagaa caaaaagaat gataaggaca atgcaaagaa 240

gaatgatgaa agcgatgaaa aacaagagaa agacaaagag aaggaggaac atgataacaa 300
gaagaagcat gtagaagtgg gtcacgcaag agaaatcaag ctacaagata atgagtctgc 360
gaacaaagaa actggtgctt ctgaagagaa gaatgatggc acggaca 407

<210> 5472
<211> 445
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-A4
<400> 5472

cgggtccagaa ttccgggctg acgcataga ggcagaagcc catgcggtag ccaaacagat 60
actcgaacac gtccagaaac gaccacacga agtagccctg cacgttcgac ccgttcctgc 120
tggttcgag ggtctcctcg atgtaatcct gcaggtactg cgacctgaac tcgtcgtcag 180
gggcgttccc agcagacgga tcagcaatgc tagcagctcc gttctcatgg atcatgacta 240
taggggttctt gtatttgagc tggagatgct ccagcatttt ctgcagagcc cacggtttcg 300
atgtcatgaa atcgcttttc aaccacagaca ggagctggtt cttcttcaaa actggcatgt 360
catagttcac tgatgcatca cacatgtaat ctctcagctc atcatccagc ttgctaagat 420
cagccttcac atataccgca atgta 445

<210> 5473
<211> 384
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-A5
<400> 5473

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tgcacgagcg cttcgtggtc cggttcccgg acgcatgcc gctggacaaa ggcgcgcccc 120
tgctgtgctc cggcatcacc gtgtacaccc ccatgaagta ccacgggctg aacgctcccc 180
ggatgcacct cggcgtgctg ggcctgggct ggctcggctc cgtcgccgtc aagttcggca 240
aggccttcg gatgaaggtg acggtgatca gctcatcgcc ggggaagaag catgaggccc 300
tcgagaggct aagcgccgac ggcttcgttg tcagcaagaa cgccgacgag atgaaagctg 360

cgatgaacac catggatggc atca

384

<210> 5474
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A6

<400> 5474

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atgaatctat catgcgtgct acttatgaat ttaatgccga agatggcact cgtagatct 120
atctttgttt ttatgcctag ctagggcggt taaatgatag cgctagtgtg gaggtaaccc 180
aattttcttt atgttttttg ttttggctcc tgttttagtaa taaatctagc atctaccttc 240
tggttagatg tgtttttatc ttttaattag tgtttgttcc aagtagaacc tataggataa 300
cctacgatga tagttgattt gattctgctg aaaaacagaa actttgcacg cacgaacata 360
attttgtaa ttcacaggaa cgtgattttg cgttga 396

<210> 5475
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A7

<400> 5475

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ataacgaact gcgccacatc tccatcaaca tgatgtccaa catcgacgat gtttctgttg 120
gtctcaaatg cttgcggcac ggggcagcag tgtaactggt caagccgctt cgcattgactc 180
atctgttgga actctggacc catgtgtggc cagttagaca gcagcttgga taggtccata 240
aagatttcgt caatgtcaat cgtgacttgg ggctgtctgt aactaat 287

<210> 5476
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A8

<400> 5476

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aatgaagatt acatcgaata gatctccaca agagaggggg agaactagta aaatatttta 120
tgaacaatag ggaagttgga atacagtaag tttaaaacca atattaataa agagcgagtt 180
cagtacagta ccttgaagtg gtgttttggt ttctttcgct aacggagctt atgagatttt 240
ctgttgagtt ttgtgttggt aagttttcaa gttttgggta gatatttgat ggcttatgga 300
acaaggagtg gcaaaagcct aagcttggga aagcccatgg caccocgagt aatctaagga 360
caccaaaaag cctaattcttg gggatgcccc ggaatgcac cctcttttcg t 411

<210> 5477

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-B4

<400> 5477

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gagagataga gagagaaaga gagaggaaga acttaggtct gtgagaaaga tggatacatg 120
taatatacat gagatgcatg tgcattctgga ttctgtatac gtggaagggtg aagagacaac 180
atgtttggtg agagagctgg aaaaacatgg aacagagggg aaagatctcg tgggttgagg 240
gattgacaat tttatgcggg ggagagaggg attggtaatt ttgtgcaaga gagagagaga 300
gagggtgcgg ggaggagtga gtcagccgtc gtcacatcac cctgcttcca aatcgaccgg 360
cattctctag cgcgggtgtg tgcgtgtcnt cgatctctct gatgccctct ttgaagattg 420
acgtgttggtg catgttgggg tgaaaat 447

<210> 5478

<211> 185

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B6

<400> 5478

cctatagtga gtcgtattac gggtaaaacg aagacgaaca ataggaacat gcaaaccaag 60

aagacgtaga gggagaaggc taactacagg aataagtaat agacgaagat atcgagcttc 120
 aggaagcggg tcacgaagac gaatatgaat gtctcgaggg acatgcagac gaagaagaag 180
 atgaa 185

<210> 5479
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-B7
 <400> 5479

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 gccataaggg ccaaattgcat caatattgac acgttgact caaacgtgcc acttgggcca 180
 acatggataa tgggtttttt actagcaagg atcacataag ccattatata gtgttggtac 240
 cctagctaat aacaacatat atcaacattg gtcctagttg cagcttcaca ggaccactta 300
 tgcattgtgc gataccatct tgaccaacac gcaacaacat tggcttcatt agattgatac 360
 atgccataag gggtcctaat cattcaccaa 390

<210> 5480
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-B8
 <400> 5480

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 ggggagacgc tctacccggg gatctcgcg gcgggagaacg cctccgctg gggcttcac 180
 cgcaaggctt acggcatcct ctgcgcgag ctggctcctca ccaccgtcgt ctccgccatc 240
 accgtcttcc accccaccct caacgccacg ctctccaaact cggccgtcct cgcgctcgtg 300
 ctgcgtgtcc tccccttcat cctgatgatc ccattgtaca tctatcagca cagacaccct 360
 cacaatcttg ctatcttggg tttgttctact ctgtgcttga gcttcagcat tgggtgtggct 420

tgtgcaaaca ct

432

<210> 5481
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B9

<400> 5481

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ttactgtaga ctttggtaat gacaaataag tcctgcgtca gatacgctc gttgtaagca 120
acaccttcga gctccaggac aattggctgg cgctgtctcg tcagccttca ctgctgaccc 180
tgtgaggaca catgggtcat ccttcgtacc gtatactgga gaaagctcca tacacatttc 240
at 242

<210> 5482
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C1

<400> 5482

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attggacgtc atagtgtctc tacaatggca cgtatcttca gctgatgtgg ccatcgttat 120
agaagatcca gactgggatg tcgctgtctt gatacaaatt acgctgtctg tatcaaattc 180
tcatttagac agatggatta acaccgaaaa gggtggcaac gttcacacat agtacgagtt 240
gcacaccctg actgggtgaag aggacgcgcc ctgttgcaaga ccagtacaca cgagccgatg 300
tggtggtcta tgcgcagagt aaacgataca cttgccattc gggctaata cgggtacttt 360
cgctttccac gcttcttttc tcgg 384

<210> 5483
<211> 396
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-C11

<400> 5483

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gcgtcacagg ttaaacaggg ggggttagtt tagtttaatt aaaaattagg gcactacggc 120
ccacatgtca gtgtcagcag gggggtaatt aaattaaaat aaactaaact aattaacagg 180
ggggctggcc ccacctgtca tcgacccaag gggggtcaaa cccctgggtca gcagggccta 240
acctgccggc ggcttgacgc cagcgaggcc gagacggcgg acgccttcgg acttcttgct 300
ccggcgggtca aaccgggtga tgaaggcgtc taccttgagc tgtgactccc ccgcatccat 360
ctgtgcaaac gtcaggggct gaagtggccc aagctc 396

<210> 5484

<211> 236

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-C2

<400> 5484

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tcataagcac atcagcatca agctggatga gaacttaaac tgggtacaat atgtcatacc 120
gagtggttgc ctacatcagt aaacatgagg aatgctgcac atgctagcac ttaaaattaa 180
ttgaatctta ccaatgttct aacgtacccc ctgtcatacc agagttattg tcttgg 236

<210> 5485

<211> 430

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-C4

<400> 5485

ccggtccaga aatcncgggt cgacggggcg gtaaactttc tattttgaaa cagcaacatg 60
tatacttgca agatactcat agtaaaagct atccttgaaa tttttattga aaatagagat 120
gcaaaacatt attataaata acatcaggca aatactaaca aaagaaaatg acgctccaag 180

cataacacat atcatgtggt gaataaaaaat atagctccaa gtaaagttac cgatgagcac 240
agacgaatga cgtgatgccca tccggggcat cccaagctt acgatcatgg atgtccttta 300
atactacatt ggggtgcctt gggaatcacc aatcttaagc tcttcgcact ccttattcca 360
tagtccatcg aatctttaca caaaacttga aaacttcaca acacagaact taacagaaaa 420
ctcgtaagct 430

<210> 5486
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C6

<400> 5486

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accacaccac ctacagagtt ctgttgccca atatcaacaa agctaatagca tgatcctgtg 120
ataataacat ctggacagac ttacgaaaga gaatatattg agaaatgggt cagtgagggga 180
tacaacactt gtccaagac acaaaaaaag ctagaaaact ttgcgatgat tccaaatact 240
tgcatgaggg atctcatttg caactggtgc agagagcatg gtttcacaat ctcagatttt 300
cttccaagca aagattccta cagttatttg ccagagcaat tgcatggtca ctctatgtca 360
agtttgcaca atgtttcagt acctctaatt gctgggaatg ccaggaattt tgtgattgat 420
cacagcagtt catctgtcgc gttttctgat gccagttatg tc 462

<210> 5487
<211> 401
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-D1

<400> 5487

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caatctcttc gcctcgcaat cacagtcccg gatcaccaat ctaaggatcg cgatcaccaa 120
caccaagaag ggcacaatgt cgagctcggc gtatatggcg aagatgaaga gccttggggga 180
tgaactggct gccgtggtc gtcccatctc tgatccggag atggtgaact acatactcgc 240

aggacttgac cgcaactacg actccgtggg ggcggtgatc ggcgctgtca agaacacaat 300
caccgccgat gacctcttcg ctcagatctc cgcctttgat cagaggatgg agatgctggg 360
agactcgtct tcaggcgggt ttcattcatc tgccaacgcc g 401

<210> 5488
<211> 438
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-D6
<400> 5488

taccggatcg agaattcccg ggtcgacggg aggccggagt cctgtcagga tgggcggcga 60
ggtcgtggct tagaggggag aatgttagga ataagccaag catgagtatg tgctcatgtg 120
tgtgatctgc atgcatggat ggattagtta gctagctatg gagccggcgc agctgagtcg 180
cgtggcagtt ctgctgggag gaagaatagg aagcaatagt tgaggcttgg tcctatacgt 240
gtgtatccaa agattctgga gacttggctg ttaccaagc gtgtgtagct agcccggtga 300
gtactaatcg gatcaagcaa ccgtgggctt gaccatgcat gcgtgtgtgc gtgggggttag 360
tgggtgtgtg tgagtcttgt acttggctat ataagttgag taaatgaatg agaaaagcgg 420
ccgtgagggc tggataca 438

<210> 5489
<211> 434
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-D8
<400> 5489

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ctagacgggg agaaatcaca tatagtcaac acggcatggg caatgttggc actaatgaaa 120
gctggacagg ccgaaagaga tccgtctcct ttgcacgaag ctgcaaggct tatcatgagc 180
atgcagcttg gcaatggtga cttccacag gaggaatga ttggaagttt cttgaaaaat 240
ggtccttctg gttatatggc ttatcgcaac atattcccca tatgggccct tggagagtat 300
catagattag tactttgctc tggctaaatt agtaccttct ggtatgaagc acctaaatgt 360

tgctgctcct ctgctggcaa tgctgaaaga gcgatatctt gatttacaag tcctgaagaa 420
 agaaacaaga agat 434

<210> 5490
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-D9
 <400> 5490

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 tatgtcagcg tcacagggtta aacagggggg tttagtttag ttcaattaaa gattagggca 120
 ctacggccca catgtcagtg tcagcagggg ggtaattgaa tgatgatact ctagacaagt 180
 tatcacgggg gctggcccac ctgtcagcag ccacaggcgg taaaatccct ggccaacagg 240
 gcctatgctg ccgctcgctt gcggccacca aagcctaaag cggggcgggc atctcacgtc 300
 tagctctgcc ggtcaggaag tcgcctgagg gaattttctt gaatccggga ctgtcttctt 360
 cacaacggtg caagcttaaa tcgctaccat gaccgtggcc cagaggagcc 410

<210> 5491
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-E2
 <400> 5491

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 ataggacccc tgggacattc gtactggcat gcgtctgttg cctgattgct cacaacggct 120
 gccgctccct ggacctcagg cgggagacgt tcgtcaccac tgtcccgtgc cagagtgcca 180
 tcgagctcgt gtctatccca atcagagccc tgacgcatga cgcgagccg agaatgaaaa 240
 tgcttaggat gtttgccacg aaagggtttt tactagctgg gagctgtctg ttgcactttg 300
 ccttactata ggctacaacc ttgtgtcctt gtgctgtgca acttgtggca ctcccagatt 360
 gcagtcaaag ttatggcata tggcgtaatg ctacactctg ttaactggaa aagatgcgac 420

atta

424

<210> 5492
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-E5

<400> 5492

taccggacaa gaattcccgg gtcgacgggg ttgatgcaag ccctagattt agtctgatga 60
catgcttgct aatcatcatt atcctgtttg aagactttac ttcgtacatt acattgaaag 120
attaaatgaa caagtgcaat accacactgt gatcaaattc tgccttgggc tatggaatcc 180
cggaacaat tgtactcagc tttctgtaat aatccctatc tgctgctagc atggcaacat 240
tgaaaaaac atcagaaatt ctacttgagt gccttcaagt aatttagatt gtccaattat 300
ttctgtcact ggatactctt tgtttttcac tgatcacgga tttgggttca gaagatttgc 360
taatttaggt tacgataatg ttggactgaa gttatgatgg cgtgtttag ataaaaa 417

<210> 5493
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-E7

<400> 5493

attcgcgggt cgacggggaa gatcaagctc caggcgggag gagacccccg ccgcgtcgggt 60
agatgagaga aggcactggc gcagtcattg tttagatatg aaagttttgg acaccgagcg 120
gaactcagtc gagagcttat atatgaaaac tagtgagaga gagaagacta tatttatgca 180
attagaagag aactatatac attgtttttc cctaagctca ataaggtctg tgtcctttgt 240
ggactgcgtt tcttctttgt cgagacagaa catacactac cgaggattgc agtcaaatgg 300
aacttcgatt caagttaaac ttttgcaata agtatatgaa gttcttttagc agtagctcta 360
gacgatacag gcttacgtac gcatgcatg 389

<210> 5494
<211> 403

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-F1

 <400> 5494

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tggtctcatt tgctgagtggt ttttaggcaa tatttggaag gcgttaatcc gtttagtacgg  120
ttcacctatg cccaagtgtc aaccagatcg cactagctaa atgtttttgg ttgtttatta  180
atgaattata aactttgtcg agtgcccatg ggaaaatact tgacaaagat aagacacttg  240
acaaacaatt tgaaaggaca tcgacccta attagggttt tgggtgtaat ggcaatagtg  300
agtagacgac taactatggt tcgagtatgc tttgagtata tacatcattg gaaatggaac  360
ataaagttcg tctgcgattc cctaagctaa aaggataaaa gaa                        403
  
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<210> 5495
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-F7

 <400> 5495

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taccggacta gaattcgctg gtcgacctga agtacatggg agaggggggg tcctcgtcga   60
agtgcgagaa cgccatggcc acgtacgttg gctaccagca ccagagcca tgcgcctagt  120
cggccaattt gattctggtg gatgctggtg cgaccttaat ttaattctcc ttttcttctt  180
ctactaatct aattaatcaa tgtttcctgg acgaatttgt tgtttcctgt tgcttagatg  240
ttttgtgtgt gtgcggcatt agggagctgc caattgctgc atctacggag tactccctcc  300
attccaaatt actcgtcgtg gttttagttc aaaggagta cttgcctagt tgcccaatca  360
gtgaactcga tcgtctgaca agtgggccct gtgcttatgt tgacgattaa tgtg      414
  
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<210> 5496
 <211> 452
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-G1

<400> 5496

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ggataacttt gtagtccaat atgctttgtc caacatttag actttcccct tcaaagacac 120
attgtctccg aaagttggaa gattctatat tttatatccc ttatcttttg agaaaatata 180
tgtgagtga cctgaatgtg gatgtataag attagtaga aaccacaaaa aatgcaataa 240
tgcatactta catgcaaggc aaccattatc tttctaactt ataaaagaca atatattaat 300
acaacatgt ttgatctcaa ctttctagaa atccaatgat agtaagcttg ttaggaaaga 360
aacatatgat tagttttagg acaaatggcc aaagttgtta tagaactggc atgtaataca 420
cataacatga gatgttagtt aanctaattt tt 452

<210> 5497

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-G2

<400> 5497

gggtcgacgg ggtattaata aacctgacag gttaattgaa gagtgcaata tcgtttcttt 60
tgctttatct gttgcagaag aaattgaagg taatgctgag ccttcttcat attccgaggc 120
tattatttct ggtgatagta ataagtggat gaccgctatg catgatgaga tggaatcact 180
tgaaaagaat ggcacttggg atttagtaag attacctaga gagaagaaac atattcgttg 240
caagtgggtt ttcaagagga aagaagggtt ttctcctaata gatgagacaa gatataaagc 300
aaggtttagt gctaaagggt atagccagat tccaggtatt gactataacg aagtcttttc 360
tcctgttgtg aagcatagct ctattcgcac tttactcagt attgttgcca tgcattgatct 420
tgagcttgaa caattggatg taaaaactgc 450

<210> 5498

<211> 461

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-G3

<400> 5498

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atactattgc tcattgtgcc tcacttatat cttttgagct tgatagtttt gctcatagtg 120
cttcacttat atcttttgag cataataatt tttgctctag tacttcactt agatctttta 180
gagcacgggtg gtggatttgt tttaaagaaa ctattgatcc ctcatgttc acttagatta 240
ttttgagagt atttaatagc attgtaattt gcttaaagat aatatacttg gtattcaaga 300
tatgtgaaac tttcttttga gtgcattgaa tagtaagata agtttgatgc ttgataattg 360
ttttgagata tggaggtgat aatatcaaag caatgctagt tgggggtgatt atgaatttaa 420
agaatgcttg tgttgaagtt tgtgantccg tagcatgcac g 461

<210> 5499

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-G5

<400> 5499

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actacggacc cgaaggtcta caaagaacta ctcacgcac atcgggagagg caccaatgga 120
agtgggtgaac ccctccgtga tgttgtctag attggatctg ctggctctag actctgcggc 180
ggctggaatt gatttttcac gattccccta tggtttctgg aatattgggg tatttataga 240
gtaaagaggc agtccggggg gcatccgagg tgggcacaac ccaccaaggc gcgcctgggc 300
ctccaggcgc gccctgggtg gttgtgtcc ccttgagca tccccagggt gcttcttcgg 360
cccattggat gtcttttggg ccaaaaaaat ccacaaaaag tttcactacg tttggactcc 420
gtttggtatt gatttcctgc gat 443

<210> 5500

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-G8

<400> 5500

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ggacttttcg gcaaggctgt tcctaaaacc gcagagaact tcagagcact ctgcacaggt 120
gagaaaggca tgggcaacag cggcaaacct ctccactaca aggggagttc gttccacaga 180
attatcccca gtttcatgat ccaaggaggg gacttcactc ttggcgatgg aaggggcggg 240
gaatcaatct atggcacaaa gtctgccgat gagaacttca agctcaagca cactggacca 300
ggctaccttt ccatgggcaa tgctgggaga gatnacaatg gatcccagtt cttcatcnac 360
actgtaacca tgagctgggt ggacggcaag cacgtcgtgt tcggcaaggt gttgtctgga 420
atggacg 427

<210> 5501
<211> 385
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-H1
<400> 5501

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tcttcatgct cgcgttcggg tggctgtggg gtccgctcgg gtggacgggtg ccgagcgaga 120
tcttcgccct ggagacgcgg tcggcggggc agagcatcac ggtggccgtc aacctcttct 180
tcaccttcat catcgcgag gcgttcctgt cgctgctctg cgcttcaag ttcccatct 240
tcattcttct cgctgcgtgg atcgccgtca tgaccgcctt cgtctatgtc ttctgcccgg 300
agaccaaggg cgtgcccata gagcagatgg tgctgctctg gagcaagcac gggttctgga 360
agaacgtcat gccggacatg cact 385

<210> 5502
<211> 413
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-H5
<400> 5502

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aagctgagct cgttccagca ggagatcgtg cagctggcgg cggtgctgaa cggcgaccac 120
cagctaagca gcctgcagga gaggatcagg gagaggatga acgtgaggga aggcacctcc 180
tacatgagga gcgcctgctg gcgcttcttc gaggccggca tgtcggccaa gaggatgggc 240
ctcgccgacg acgagcagat cgtcaagatg aggccctccc ttaccaccag aatgacctcc 300
tcccctgcag atcaagatga tagtccgtag agagcaacga tgcatacata cataggatga 360
agattgatgt tggaattacc anaattctta gtactacaca tacatacata gaa 413

<210> 5503
<211> 403
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-H6
<400> 5503

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acaacggcgg aagcggcggt gcagagtgc aactaggcgg cttctggctc ctacggcgcc 120
tacgggagct cagcagggtta ctggacatgg attccaggcc agtaagtcac gggagtgcg 180
ccggccatga gcttgagcgg cggtggggtt cggcctcgat ggaactacgg cctagagctc 240
gcaatcgaga gcgttggttag aggggaaatg accagggtgt cacaacgcgt tggatggng 300
gctcggngac tcgggcgagg ctctggagtc ggtgtgtggt cgccggcgat ctcgccggac 360
gagagttgaa gacggcgaag gcgacggcga tgcaaggcgt tcg 403

<210> 5504
<211> 457
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-A5
<400> 5504

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atgtttcaaa aaatgttcgg gaatttcaaa aaatgttctc gttttcaggt agaaacacaa 120
tttcagaaca atgttgatgt ttgaaaaatg ttcgcgggtt caacattgtg atcgcaattt 180

caaaaaatat ccctgtgttt ttttgttcgc atttccaaaa cacatatgaa tacaaatatt 240
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 tgtttttcaa ttttgttta aaaatatcat ttgtggtctt agaaaatatt taggaatttc 360
 caaaaaagga aatagaacat cacatttttc gaaaactggt tgtaatatat acaatacttg 420
 cgtgatttca aaactgtttg caactttaaa ggaatgt 457

<210> 5505
 <211> 483
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-A8

<400> 5505

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 ctttcccctt agttgctcga cactactggg ttactatcga gtgccgaggg tgagacctct 120
 tcagcacttc taatgttaac gttgtagtgt agctattcgg tcgtggtcat cgagggtgat 180
 ttctctctta accacttccc aagtctcaga aaggtaacga tgctatcttt gtcgtcatcg 240
 accaattctc gaagggttgct cactttctgc cagtcaagga gactatcact gctagtcaat 300
 tagcaaactt gtatatctcc agaattgtgt cactccacgg cattccgaag gagatcagtt 360
 cagaccgtgg aagtattttc actccgaagt tctgggatag tttccaagag gcaatgggaa 420
 ctcatattac ctggagcact gcttatcatc cccaatcnca agcccaagtt gagcgagtca 480
 atc 483

<210> 5506
 <211> 262
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C2

<400> 5506

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 ttgtgggatt tgctttgtaa tggtaatcgt gaaattggtg tggttgaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

agcggccgct caaaaggatc aaagctaacg tacgcgtgaa tgcaacgtca tagctcttca 240
 aaagtgtcac ctaaattaaa tt 262

<210> 5507
 <211> 138
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-G7

<400> 5507

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 gccgtacgtt tctacagcgt tcagactgac agaaccttgt cataacgtaa catatccgtc 120
 ttggattata tctaccga 138

<210> 5508
 <211> 306
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-H5

<400> 5508

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 agggagtatt atagaagaaa atgttgtatt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacggtca aacaaaagga 240
 tccaacctta cgtacgcatg aaagctacta catagcccat caagacagtc atcataaatt 300
 caattc 306

<210> 5509
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-A9

<400> 5509

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 gtgcgccacc gatgtagcct cccagttgga gttgttgtct gatgacagtg gtgtggctga 180
 gcgaccacga tggaccagcg ccattggtga ttatgggaga agcagacgag ataagctaca 240
 gggagggagg ggaaaatgcg acgcaggact cgcgagccgt gagggtttat atagtaggcc 300
 tgtaagtatt ggatttttgg tgatttcacc gagtcgggtg ggaagctcgc gcaggaacct 360
 gcgaggttac gcaggaatg agctcactga cgattcattg gcaccaccgt tttggcaaaa 420
 gaacgcccc gcgcgttgca caagcttgcg ttgtacgcct a 461

<210> 5510
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C12
 <400> 5510

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 gatccatcta gtagcttttc cttcggatt tgtttagtta aaagttagcc attgcaactt 120
 cgtgtacttc gtttgtgtcc aacgaccaga ccaagaccgc ttacggatcc ccacctttat 180
 caatacttca tacatattca caatattcag attgctttta tcatattctt gcttgttctt 240
 tgattgcttg caggaataga cttcgtggt cagggtgatc gtgctccggc gtggtcaata 300
 acctcaagag attggtttag cgattgctaa ggcgcgacgt cctcgcacgt tcatagtcgg 360
 atcgtgaaag tcgtctccag caaatcgata gttatcatct catcgaaaga tcgggacacc 420
 tcccgccct atc 433

<210> 5511
 <211> 206
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-E10
 <400> 5511

ggggttggtt caagacggca gaaaaatgg tactaatgta acaacgaaac cagataaatt 60

cgcttgcct gcagcaacaa tcagtaatca tgcattgaata aataatgggc acaataccaa 120
 agggggccgcc cttaaaggatc aaagcttaat ttcacatgca tgcaacttca aaacccttca 180
 aaagtgtccc ctaatttcaa ttcagg 206

<210> 5512
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-E6
 <400> 5512

cgggcacaca ccatatacct tctcaaaac agccaccata cctatgtatt atggcatttc 60
 catagccatt ccgagatata ttgccatgca actttccacc gttccgttta ttatgacaca 120
 ctccatcatt gtcattatgc ttagcatgat catgtagtgc acatcgtatt tgtggcaaag 180
 ccaccattca taattctttc atacatgtca ctcatgagtc attgcatatc ccggtacacc 240
 gccgaaggca ttcatataga gtcattttt gttctaagta tcgagttgta attgttgagt 300
 tgtaagaaaa ataaaagtgt gatgatcatc attattagag cattgtccca gtgaggaaag 360
 gatgatggag actatgattc cccacaagt cgggacgaga ctccagaaaa aaaangcggn 420
 naaaaaaaaa aaaaagcggc cgctctagag gattcaagct t 461

<210> 5513
 <211> 142
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-F3
 <400> 5513

gcaacgggaa cggaagaaag accgggaaca caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 cgggcgctcc aaaagattca aacctaactt cgccttcaag ccaactcaaa acccctccaa 120
 aatggcaacc aaattcaaat ca 142

<210> 5514
 <211> 236
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F8

<400> 5514

cgaggagattc acaggagaga agcgacggag ttagaagttg taaatatgca ttgttgatc 60
gcgacctgaa tgaaataaac gaaataatgc tcttggtcaa tcggcaaaaa aaaaaataa 120
aaaaaaagaa aaaaaagagg acgcacaaga tgatgaaaac agatgatact actgcatgcg 180
acatcatagc tcttccatat tatcaactaa atacacatca caggctgctcg ttaaac 236

<210> 5515

<211> 136

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H4

<400> 5515

tgacacataa acaaaatgga tacggaaaaa actcatcaaa aatgtcaaaa aaaaatcggc 60
cccccaaaag gatcaaact aacttaccct tgaatgcaac ttcaaagccc tccaaaattg 120
tcaccaaaat tcaatt 136

<210> 5516

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A10

<400> 5516

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gcggcgga gaagcagacg agcaagatcg tcggcttcgt gaagatgcac ttcgtcggca 120
cctccttccc gccagctcga gcgaggatc ggttggaacg cagccgcgcg cctgctatt 180
cgtcatacaa cgactacgag tacgcggcgc agtggaaacg tgtggttccg gcgacggcgc 240
cgcccggtga ggaggaggtg gtggaggtgt gcgacgacac ggcggagtgc gggtagctgt 300
gttggtgga ggaggagagg tcgtcgggtg gcgtgccggc gggcgaggac gacggcgccg 360
aggctagtcc ggcggtgaac gagatcgaca ggctggcgga gaagttcatc gcgaggttcc 420
acgcgaagtt cttgctggag aagcaggagt cgtacc 456

<210> 5517
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A12

<400> 5517

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ctcctgccac cgatcccgaa ccaggaggga acccggcgcg aggagggcaa aggaagagaa 120
gaggagatca ccgagcccag cgcgcgaca ggacagcagg cgccgcgac tcgcacagga 180
gcgagatgg ggctcacgtt cacgaagctg ttcagccggc tcttcgcaa gaaggagatg 240
aggatcctca tggtcggtct cgatgcggct ggtaagacca ccatcctcta caagctcaag 300
ctcggagaga tcgtcaccac catccccaca atcggttata atgtcgaaac tgtagagtac 360
aagaacatta gtttcaccgt ttgggatgtc gggggtcagg acaagatcag gccctgtgg 420
aggcactact tccagaacat cc 442
```

<210> 5518
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-B4

<400> 5518

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ggcttcacg acttcagca gttcatctcc ttctgcaacg ccaaccggg gtcacgaag 120
gacgtcgcca aggtcttctg aatcagttca ttccacctca gccgtccgtt ccaggagccg 180
atccatctac gtacggcttc gtatatcaat ttcacgcaac tacctactcc ggtcccgatc 240
cagcctcagc ttcacctgag gccggcccta aatttggttg atcaattctt ttgctactag 300
tagtaactag tgatgatcac tggtgcatca tttaattatt tattttatat atcatcacia 360
gtttcctgtg attcctttct ttctatacct ttttgcgat tgcngctcc agctcgatcg 420
aacgattcat gctgctaatt gtttgtg 447
```

<210> 5519
 <211> 446
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-B7

 <400> 5519

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gtacaagtcc agaattcncg ggtcgacggg ggtatttaga tatttgctgg gagaaagaag   60
agatagatca agagaacagc tcagcactgc ggaaaacaaa gtcaattata ctcacaaata  120
gttctgcatg caaactgaag ctgggagatg tggaggggtgc tttgttagat gcagactttg  180
cactgcgtga aacagagggc aacgcaaaag cttttttccg tcaaggacag gcacgcatga  240
cactcaagaa tattgatgct gcagttggga gcttccagcg tgcgttggag ttggagccaa  300
acgatggagg aatcaaacgg gagctggctg ctgcaaagaa gaaggttact gacagacgca  360
atctggagcg gaaggcattt tccaagatgt tcgagacgtc aggaagttca gagaaaagtg  420
atggagtatt ggcagcaagt tcagag                                     446
```

<210> 5520
 <211> 446
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C10

 <400> 5520

```
tccagaattc ccgggtccac ggggacgacg acgtggatgt ggacgagtcg gatagaaagc   60
tcttagatga tgaaaagaaa cccgatatca cgaaacgacc acacactcct attggagatg  120
aggtggaatg caagaagcca aagatagcag aaggctcaag gtgccaagga gaagaacctg  180
aggctggagg gataaagaat tcctcctggg tctgatgaca ggggaatgca gtaaaccacca  240
gaagcatcaa aactatgatc tggaacagta tcctgaataa actatcttct ggattatgaa  300
tgaattctga agcatggggc tataagttaa ttatgtaaca tggatttgta actatggtgg  360
atgttaagtt aacgttctat cagtgcacgc tgaatgcgtg cccaaaaaaa aaaaaaaac  420
atcaaaaaaa aaagcggccg ctctag                                     446
```

<210> 5521
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-C2

<400> 5521

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gggtccgacat tcacgggtcc acgggatata tggaattgga gttgaggtcg gtggagcgtc 60
agggggccca tgatgcaggg gggctcgccc aggggggtan gcgcgccccca acccttgctg 120
acagggtgtg ggccccctaa cgtggatctt tcttcagta tttttttgta tattccaaaa 180
ataatctccg ttgattttca agtcattccg ggaactttta tttctgcaca aaaataacac 240
catggaaatt ctgctgaaaa cagcgtcagt ccaggtagt tccattcaaa tcatgcaagt 300
caaagtccaa aacaaggga aaagtgtttg gaaaagtaga tacgacggac acgcatcaat 360
tcccccaagc ttaaacctat gcctgtctc aagcaattca gttgataaac taaaagtgat 420
aaagaaaaac ttttaciaaac tcc 443

```

<210> 5522
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D10

<400> 5522

```

gggtcgacgg gggtcatatc gacaatcaac cgtgatggcg tccaaagtcc ttcttgcaat 60
cctcctctc gcccgggcga cgccagcgtc gctggctgcc atcgatatgg cgcagatgct 120
cgctgacaag cccagtagc cgaccttctt gaggtcctg aaggagacaa aggtcgccga 180
tgacgtgagc cggtcaagt cggcttccgt gctggctgct cccgagaagg ccgtaaagcc 240
actcttgggc gtgccggccg ccaagcagc gacgatctc cagcatcatg tctcatcaa 300
gtatttcgac cccatccagc tgggagagat gaagaccaac gttgccaaagc tccagaccat 360
gctctccaac acagataagg acatgggcac catcgactac tccaaggaca aggacggcca 420
gatgtaccta cgctccccag gcgccgatag tg 452

```

<210> 5523

<211> 464
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D11

<400> 5523

tccagaattc ccgggtcgac ggggtcttggg gatgctatgt ttaatgaaga tgatattttt 60
 agcctcccaa gttttgatat gcaaagttgt tatgatgata gcatgcctct tacttatgat 120
 tatattgatg aaagtgggtc tggaagagtg tcaactttag gaagtgatga ttccactatc 180
 ttgggagagg tctcaatcga ttatgatgag aacaaagttg gtacttatga tgattattgt 240
 gatgaaactt atgctataaa aaatagtgac gattatattt ataaaacttg tcatgattat 300
 gattaccctt tttcttaacg ttactctttt aatgtggaaa caaatTTTTag tgttcaagtc 360
 tcttatgata ctcccgctgt tccgaatgag aagaattttg cttatgtgga gagtagtaaa 420
 ttttctatgc ttgtagatta tgaaaagaat gctttagggtg ctgg 464

<210> 5524
 <211> 466
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D12

<400> 5524

tccagaattc ccgggtcgac ggggaagcgg tcgttcgatg ccgagacgcc gcggcggcgg 60
 gagtcggcac gcagcaacga ggcggtcgag gaggcgcgga tcaagctgct ggagctgcgg 120
 caggtgaaca aggtgaaggc gctcgtcggc gccttcgaga ccgtcatgga cgacaaccaa 180
 agccccaccg ccgcccgcaa gccgcggctc aacctcggcg cctgaactac gagtacattc 240
 gatgagcatg aagctcgatc gcgtgcgcct cctcctttat ccccgctact ctttaatcac 300
 ccatcaaccc aatttgctgt cgtcgcacac ttatctataa ttacgggtatc gcttatattc 360
 tgcaaggagg aagatgatgg aggggttata atcatgatgt aataataata atgatcatgg 420
 aggaagatgg tgtattttac ttataactat cgtctacacg atcaat 466

<210> 5525
 <211> 458
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-025-Q1-E1-D5

<400> 5525

```
attccccgggt ccacggggga ctggcaatgg cgcgcgccgt cgccgtcggc gcgttccaga   60
ggctcaaggc gcgctggggc tgctccaga ggcgcaccga ggtcaagggt gacgaccttt  120
ccgtcatgct cggcgctgc tgccgctcc acaacatctg cgagcgcagc ggcaaccct  180
tggacctcca gctgctgcag ggcctggagc tcgacctaga cgacgacgac gaccacatgg  240
tcgccaatga ccccgctgcc tccccgcgcg ccgagcaaat gcgagacacc atcgcccaca  300
acatgcttca ccatggcaac aagctggccg gcgctgggac gtcttcctac aacctacaag  360
caattactgg tttccatttc ttgaccgggt cattaaccgc attcaaagtt aaaggaataa  420
ttaaaggagt agagcaccaa aattcatttg ttattttg                               458
```

<210> 5526

<211> 457

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-D8

<400> 5526

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gggtccacgg gataataatg gtgcggatgg cgatgttccc aagagtgggt ctgtcgaaga   60
cgaggagcat attgcttctc tgaggcctaa aagatcaaag agactagtga ggagcacggg  120
tgaggataag gaatccgttg ctgcttggtg tgttgagaaa cctgcagatg cagctgaaaa  180
caatgacaac aatgatgcag aagagttgca atacccttca gcctagtgga cctactgggt  240
tgacctgatg agaacataag atgcgaatgg caagactcta atttttggtg tcgagtanga  300
gcatcaaaga tggcaccag aggaggagct ctggatctgc ttaagggtgtt acgcagttca  360
ataagtactt taactgtgct gtgcagcttc ttttcagaaa cctggggactg caacttgggt  420
gcagttgcag tgagctgagc ccaatgatgg ctgttat                               457
```

<210> 5527

<211> 413

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-025-Q1-E1-D9

<400> 5527

attcccgggt ccacgggttc tccacatttg tacagtgagg cagggtccgc ttctagccag 60
cattatgcta cattgtactg cctgtaactt gtaatggagt ctggagcgat tcagtgtgtc 120
tgtcagttgc ggtgcggcgc atccgcccga cggccatgat tggcgtgtca gtctttcgac 180
acagtacgtt attcgcata gtgtgtgtgt gtgtgtgtgt gtgtgtattg ctgtgaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaagcg gccgcccaga aggatccaag cttacttacc cttgcatgca 360
acttcatagc ccttcaaaag tgtccccaaa tttcatttca ggggccgtct ttt 413

<210> 5528

<211> 450

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-F12

<400> 5528

tccaaaattc cggggtcgac ggggacggag atcgggttcg tccacacact cccgccgcca 60
ccaccgccgc gaaccggaga gcgaggccga caccgccgcc gcgatgaggg ccaagtggaa 120
gaagaagagg atgaggaggc tcaagaggaa gcgccgaaag atgaggcagc gatccaagta 180
ggccgtaagc atcatcttgc atccaggcag cggaactctg aggggtgatg gcattgtcta 240
gtgattcttg atttgttctg ttgttttggc tgcggaagtt gcttttacct gtgtttggtc 300
aaatttagtt gtttaatact agtctggcta tgttccagta ctgagtttta tgtaatgtga 360
ggattatatg tgtttgtgac tgaattttat gcacctatta tccttgagga aaaaaannnn 420
aanaaaaaa aaaaaaaaag cggccgctct 450

<210> 5529

<211> 450

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-F9

<400> 5529

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accacctcag gtacgagatg atgtccatat tcctaaactg aaattgaata ttccaccatt 120
tgagggtaga tatgttcctg atatatatct tacttgggag ttagaaactg aacaacgatt 180
tacatgttta caatattcctg aggagagacg agttgctgct gctgtttgtg ctttcactag 240
ttttgcatgt gtatgggtgt ctgaacattg tagattatat cctattccaa ctacttgggc 300
tgctttgaaa agtgctatgc gtacgogttg gggtccacca tattaccaac gtgaattgct 360
tcaaaaattg cagcgtttaa gacaaggga aaattctgta naagaatatt atcaggaaag 420
tgaaacttgg atgattagat gtggtattgt 450

<210> 5530

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G10

<400> 5530

attccccggg ccacggggga atgctcaaac acatatccat taacgatgtg tgggtcaatg 60
aaccaacat catggatgtt cttactctg cattccttaa tcttcattct gcatgtataa 120
tagcggacac aacaatatag ttaggacata tatatagtgc aggcaatatg aacgagatgg 180
ggtagaaata aatcacttac agaacgtagc aactgatgat agatttgtcg agctcgcgca 240
gattgaaaag ctggaacaat tcactcagat gaatttgtac atagtaatct ttgaagtgat 300
gctcatatct aacttcaca taaatatatt ctttggcggt tttatttttt atgtaaccct 360
tgtaccattt cagcagacct ttcatttatg gaggtagatc ctgttcctgc gcaggctcga 420
cgagaggccc attcttcaca tatgtaatta ctacctct 459

<210> 5531

<211> 290

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H11

<400> 5531

cggggtcagt tcagtcttct acagaatata gtctcatca tagatcccga ggactccaca 60
aagtactatc cccgctttaa cctggaagat acttcaagtt ataaggactt ggtcgaacag 120
atcatcaaat ttccttatct tattagagaa ggctatttc ttcttttagtg tcggtgatct 180
tcgattcact ggccgtcgaa taactcgatc ttactattg aaaccttctt gtttcctatc 240
ttactttcgt tgatgtatat cctactttcg ccacctggat tgatctccat 290

<210> 5532
<211> 473
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-C5
<400> 5532

attcccgggt ccacgggagg cggataacgc tcggagggtg ataattattca tgatgcgtca 60
agttgctcag cgacaccgaa cacaaggct ccagagtcca agtggcatgc ctggagatgc 120
cgaggaaggt tatgcggtta gcagcgggtg cgccaatgga accaccccggt accctttcac 180
cttggagggc gacgacgagg atgacatggc tctggccgga ggggaagggg cgggtatgct 240
tagatcagac aggcgtcgcc ggcgacgcg taggaaccgt ggaagactgt ttttagattc 300
taattgagaa ggcaggggct ctgtcaccag agtacatgca cagctgattc cctggtgcct 360
ggcattcatc aattccaacc aaaatttact tgttcatgat cattgtacca aagtagtttg 420
tcttaacctc agtcatcat tgctttccat caacctggtt tcattttcac att 473

<210> 5533
<211> 475
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-026-Q1-E1-D8
<400> 5533

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gttaatcatg catttataaa acggtaaaca tgtactgtat aaaacaatgt ttctcatgta 120
aacaaaaaat atagaggggtg tatgtaaaaa agtccacata aaaattacta caaatgtta 180

atcatgtatt aaaaaaatgt taattgtgtg ttttaaaaaa tgctcctgat atatatggaa 240
aatttacaat gtgtataaaa aagttgacat caaaatatat atttgggaaa caaagtgtaa 300
tcatgtgttt gaaaattttc aaatgtatgt gaaaattgtt gctgtatacc aaaaaattaa 360
tgtgtacgaa aaagaaaata tgcatacaaga cttatatatta aaaaaaatgt tgatcatgta 420
tttaaaaatt gttaaacatg tattaaaaaa tatacccgat atatacgaaa aatat 475

<210> 5534
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-E1
<400> 5534

cggtccgaaa ttcacgggtc gacgggaagc ttttatggac aaaggaataa aggggtggcaa 60
gagcctaagc ttgggggatgc ccaaggcacc ccaagatatt caataatagc caaaagccta 120
agcttgggga tgccccggga aggcatcctc tctttcgtct tcgttcattg gtaactttac 180
ttggagctat atttttattc gccacatgat atgtgttttg cttggagcgt cgtgtattat 240
attagtcttt gctttttagt ttgcaacaat catccttgct gtacacacat tttgggagaa 300
gcctttttga ttagaatttg ctagaatact ctatgtgctt cacttatatc ttttgagctt 360
gatagttttg ctctagtgtc tcacttatat ctttttagagc acagtgggtat cttaaatttg 420
aataaattgc tagtctctca tgc 443

<210> 5535
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-E8
<400> 5535

gggtcgacgg gactgttctg tttttgacag attctgtttt ccgtgtgttg tttgcttatt 60
ttgatgaatc tatggctagt aaaatagttt ataatccata gagaagttgg aatacagtag 120
ttttaacacc aatataaatt aagaatgagt tcattacagt accttgaagt ggtcttttgt 180
tttctttcgc taacggagct cacgagtttt ctattttgag ttttgtgttg tgaagttttc 240

aagttttggg tgaattcttt tgatggatca tggaacaagg agtggaaaga gcctaagctt 300
 ggggattccc atggaacccc caagataatc caaggacacc aaaaattcaa agcttgggga 360
 tgccctggaa ggcacccctt cttttgtcca cttccatcgg taatttactt ggagctatat 420
 ttttattcac caacatgat 439

<210> 5536
 <211> 394
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-F1
 <400> 5536

tgacgggtccg aaattcacgg gtccacgggg aagaaaggga agaaacgccg gaggaggtct 60
 aaaggaacta gccaggcaac ggctgaaggt gcttctggag agaagaaaaa gaggaagagt 120
 cggaacaaaa aagttgaggc tgaaaatgag aatgatgatg aagatgatgc tggtcctgct 180
 ggttctgagg actcatcaat gggagaaagt gatgaggact ctgaagtga aagagagacc 240
 aagagtgatg aagagcctga agcaacaccg gtgaagaaaa agtcaacaga tggtaaacaa 300
 ggaaagaagg aagctggatt caaggcaaag gaaaaggatg catcggtgaa gaagactcct 360
 actaaatctg taaaaagcgt gtcaaagcca aatg 394

<210> 5537
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-F11
 <400> 5537

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 gcttggaggt cgagcttggg gaggagaaag cttaagtagt gtggctcggg cattccatcg 120
 aacacctcat gtgcatanga ggtgagctag agcaccacaa agctctcccc tcgccggcca 180
 cganaaatag agcactgtga gtgctctgct cgcgggagag gggtagatat aggcaactaa 240
 ttggteccgg ttcgtgccac gaaccgggac taaagggcag cctttgggtc cggttcacgc 300
 caccaactgg gaccaatggt ggtggggcag gagcgagacg cattgggtccc ggttcgtcnc 360

accaaaccgga accaataggt ccagccgaac cggaacaat ggcccacgtg gccagtcng 420
 ccccggggt cacgaaccgg gttcaatgcc ccc 453

<210> 5538
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-F2
 <400> 5538

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 tctcatcgcc gctatgggtt catgacgaag acaattttat cttaagttag aaccgcagca 120
 acaattgatg taatataact ctgcagtact ttaagatgaa acatgctatc ttctgtgtt 180
 gatctttctt tgtatgtata caccctacgc ccagtgggat aggggttgccg ggcgcgtaaac 240
 ccatgctatg gcgcttcgag gacggatcct tagcagcctg ccggggggcgc ttgctgccgg 300
 aaaaaccaac ttgccactct tagcggggcc gcttgagctg ttgagcggac tcaaaataga 360
 acaaggacgt tgctaata 377

<210> 5539
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-F6
 <400> 5539

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 taccgctgag gcaacccgtg aggagaatgt gtacatggcc aagctcgccg agcaggctga 120
 gcgttatgag gaaatgggtc aattcatgga gaaggtggcc aagaccgctg atgtaggtga 180
 gctcactgtt gaggagcgca acctgctctc tgtggcttac aagaatgtga ttggtgcccg 240
 gagggcttcc tggaggatca tctctccat tgagcagaag gaggagagcc gtgggaacga 300
 ggcctatgtc gcatcaatca aggagtaccg taccaggatt gaaaccgagc tcagcaagat 360
 ctgtgatggc atcctcaagc ttctggactc ccacctgtgc ncctctgcca ctgcagcaga 420

gtccaagggtg ttctatctga aaatgaaggg tgactacca

459

<210> 5540
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G12

<400> 5540

aagccaagta aattaacaaa aacaaaaaaaa agtagttaaa ttggggacgt caaaaatggt 60
tcggatttaa ataaacctta aatgaaaaaa aaaaggggcy gctcaagggg ttcaaagttt 120
aatttcgctt gaatgcgatt taaaacctct tcaaaggggt aacctaggtt aatttcaagg 180
gcat 184

<210> 5541
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H3

<400> 5541

gggccgaaat taccgggtcc acggcgcaga ggtgtaagaa acagaagggg tgctctgttt 60
ctcacatcga gtgctctgtc gagcagaact actgatcgtg atcgccccga gcacgggcgg 120
ggatatatt gaccatcgag tgtcatgttg ttctcgctgtg ctgggggtttt gttgtcgggg 180
ttttgtcgtc agatttcacc agctcgtttc tttctcgggt tctttgtttc tttcacacgg 240
taaatgcagc taccactcga ttcttggcgt ttgttggttg taaagaagat cgtagcttgt 300
aagtaaaatc gtttgcagtg taaaatgtac aaaggtagca tgggaaatgc ttaacagagg 360
agtcttggtc ttgcactcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagc gggcgct 417

<210> 5542
<211> 53
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-A12

<400> 5542

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<210> 5543
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-A4
 <400> 5543

gggtcgacgg ggaccacaag gagaagaagg acaagaagaa gaagaaggac aagaagcacg 60
 gcgagggcca caaggacgac gacggccacg gcagcagcag cagcgacagc gacagcgact 120
 gagccagctc cggccgcgct ccggcagcag cgtgcagtgt aggcgagatc gatgaacgct 180
 tgggagaagt gtggcataca tatatgttgc agggtttggg gctgtgtgta gcatatgtat 240
 gtaatgcgtg acatgtctca tggatcttgt gatgtataat aattagccgg ctgcactgca 300
 ctgcacggtg cttgtaataa taacgttaat gaatcatgtt ggcattgatg tgaaaaaaaa 360
 aaaanaaaaa aaaaaaaaaa aagcggccgc tct 393

<210> 5544
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-A7
 <400> 5544

cgggccgacg gggatcttga gcaaataca caccaaagtt tgatgatgac aaaaggctat 60
 gaggagatgt ctattgcgta ggtgcaaaat ctccatcgat acagatcgcg ctaggtgcca 120
 gtttttccgc agagaacggg ccccgctggt aatgtgctgc aagattgatt gacagatctt 180
 aagcaggtcc tcgcaagtcc tcacgccggt gatgatcagt ttgtcagcca gatacataag 240
 gatcgtaata gaaacggggg caatgcctaa caaccagtaa cgtagattgt caagagacgg 300
 cgacacagct catcatcatt ctcttgata ctctgcacag gctagtccac ttttccacag 360
 aagactcaat g 371

<210> 5545

<211> 468
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A8

<400> 5545

gtaccggact agaattcccg ggtcgacggg atgatgatag ttgatttgat tctgctgaaa 60
 aacagaaact ttgtgctgct gaatttagtt ttgttaaatac acagaacttt ttcattgatt 120
 cgtttttctt ctgatcaata gacaaaatct acaggacttc ctattttggt aggattttta 180
 gagttccaga agtttgctt agttatagat ttctacagat tgttctgttt ttgacagatt 240
 ctgtttttcg tgtgttggtt gcttatcttg atgcatctat ggctagtaaa atagttaa 300
 aaccatacag aagttgggat acagttggtt taacacccaa ataaataaag aatgagttca 360
 ttacagtacc atatgtggtg gttttgtttt ctttcaacta cggagcttat aagatttcct 420
 attgagtttt gtgttggtgaa gttttcaagg ttttggttaa agctttta 468

<210> 5546
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A9

<400> 5546

gggccgacg gtacggcggt tcgataacta atagattttt gcaataagta tgtgagttct 60
 ttatgactaa tgttgagtcc atggattata cgcactctca cccttcacc attgctagcc 120
 attctaatac cgcacacctt tcgccggtat catacaccca ccatatacct tctcaaaac 180
 agccaccata cctacttata atggcatttc catagccatt ccgagatata ttgccatgca 240
 actttccacc gttccgttta ttatgacacg cttcatcatt gtcattattgc tttgcatgat 300
 catgtagttg acattgtatt tgtggcaaag ccaccgttca taattctttc atacatgtca 360
 ctcttgattc attgcacata ccgggtacac g 391

<210> 5547
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-B7

<400> 5547

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gtagtttctt tgctcgagtg acagattgtt ttgttttgtt ttgttttctt tgctcgtgtt 120
gaaatacagg tgttgatgat cgtgacaact gtttttcttc atttaggggc aaatgtatgt 180
gtggctgcag tccccctcta tattgacatg cgatctattg tatttatttg ggtangagg 240
gtattttaagg atcactttgc cctcaaaaaa aaaaaataaa aaaataaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaataaaaa ccaaaacaaa aaaaaaaaaa aaaaaaaaaa 360
aaggggccgc caaaagggtt caaaccttac ttacccttga atgcaa 406
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<210> 5548
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-B8

<400> 5548

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tatgcaaatg cacatcacat gacgacatga taagagatgc atggtcacga caacagcaca 120
cggtgacaaa gagccgaacc cgggaaaata gattaactta acgccgaaa cggcaatagt 180
tggcgtacat atacggaacg ttacatccgg ggtgttacac ggtgtcccaa cttagcccat 240
cacaagatct cacggtcatt gaaggatatt ccttctctca agacatccga taagccggat 300
ccggtaacag acatctcaat ataggaaaca tgtcagcata gccagccgaa tgtgccgaca 360
tatcccgata tgagctgcac atatctcggt ctacacggcac actcagactg tccaaacctc 420
cggtaaggca tccanaatt gccctgggtg 450
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<210> 5549
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-C2

<400> 5549

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aggaatcgag gaaatccaac tacaccgatg tggttaataa atattatgat cttgctacta 120
gcttctatga gtatggctgg ggtgaatcct tccactttgc tcacaggtgg aatgggggaat 180
ctttaagggg aagcatcaaa aggcacgagc acttttctggc tttacagctt gagttgaaac 240
caggggatgaa ggttttggat gtcggctgtg gaataggcgg gccattaaga gaaatttgca 300
gatttaacct caacctcagt tactggattg aacaacaacg actaacagat aactagggga 360
aaagcgctta atcggtcggg angacttggc gctacttgtg attttgtc 408

<210> 5550

<211> 353

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C3

<400> 5550

ggtccagaat tcccgggtcg acgggccctt ttgggtgtta atcacatagc aatgtgaact 60
agattattga ctctagtaaa ccctttgggt gttgatcaca taatgatgtg aactatgggt 120
attaatcaca tgcagatgtg gggattgggt ttaaatacaca tagcgatgtg aactagatta 180
ctgactctag tcaagtagag gcatactaata gacactatgt ttgtctatgt attcacacat 240
gtattatgtt tccggttaat acaattctag catgaatact aaacatttat catgatagaa 300
ggaaacaact aataacttta ttattgcctc tacggcatcg atccttcaat ctc 353

<210> 5551

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C5

<400> 5551

aattccccggg tcgacggggg aatcaacaca aaacaaaaac gaaaaaataa gataaagaag 60
aagagtcaaaa aatgcataaa aatacctata catacaaaac aaaaaatcaa aaaaaattcg 120
gccgccccag aggttccaac cttaattacg cttgaatgac atctcttgac gcttcaaaat 180

tttcaccaaaa tttcaattca a

201

<210> 5552
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C6

<400> 5552

aggtaccgat ctggaattcc cgggtcgacg ggggatcaaa tatgataatc tatcttagtt 60
gcccctggca gaacacaatg ttactgtcag gtcgccatcg gttatatcga gtgagtgttt 120
gtggctggcc gagctggctct gagaactgct gaatgcaatc tatecttaaa tttggtaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240
aaaaaaatga aaataactaa ccataataaa ggaaaaaaaa aaaccggcaa aaaacaaaaa 300
aaggggcccc ccaaaggtt caaagctaag ttacccttca atgaaagttc aaacctcttc 360
aaaggtgccc ccaaatttca tttcaggggc cttcttttaa aaacttggtg acggaaaaaa 420
ccctgggttt acccaaatta aacccttcta aaaaaaaccc cctttttcca 469

<210> 5553
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C7

<400> 5553

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gttgagaagc tgattggcag gatagtgagc cggctgaagc ccggtgggca tattttcatc 120
agggaatcgt gcgccacca gtctggggat tccaagagga aagtgaacct gacgcactac 180
cgggagccga ggttctacac caaggggttt aagggaaggc actcctaaga ccaagaaggg 240
aattcctttg agctttctct ggtaacttcc aagtgcattg gagcttatgt gaaaagcaag 300
aagaaccaga accagatatg ttggctgtgg gagaagggtca agtgacaga agacaaaggc 360
tttcagagat tcttgacaa tgtgcagtac aaatccactg gaatcttgcg ttatgagccc 420
gtgttttggg aagggttatg ttagcaccgg tggatt 456

<210> 5554
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-D2

 <400> 5554

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 gcaagttaca caagctgagc aaaatcagag gcataatttg tttcatacga agggagttgt 120
 gaaggaacgt tctgttcacg tcatcataga tggagggagc tacaacaact tggctagcat 180
 ggagatgggtt gagaagctat ctctcaccac aagacctcat ccacatcctt actacatcca 240
 atggttcaac gacaacggca aggttaaggt aacatgtatt gttcgtgtgc attttagtat 300
 ctctacataa tgctgattat gttgattgtg atgtgggtacc tatgcangca tgttccttaa 360
 tacttggtag aacatggcaa tttgataaaa attctgtaca ccatggtaga atcaatcagt 420
 atactcctgt tcataaggac aaaaatatta ctttgcttcc tatgac 466

<210> 5555
 <211> 472
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-D5

 <400> 5555

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 cctctggtgg tgaccgcttt ggtgcagaca ggtatggtgc agctccagac cgttatgcac 120
 caagtgggtgg tggaggtggc tatggcaggg agcgggagag aagctacgag agagatggaa 180
 ttcgtggtgg tggcgcttat gacaggagtg gccaagggg cgggtgcaagc tatgacaggg 240
 acggcccaag gggcggcatc ggtggtggct atgacaggga cgggtccacgt ggaggcggcg 300
 ccgactatgg cagcggaggg cctgctcgct acgagggagg aggttacagg gagaggcctg 360
 cgccgtatga ccgccccagg ggaggaggac gcttcgacga ccgctattag tgacctgttg 420
 ctgcantcga gctatgtatt tgcgttttaa ctctttcaag tttggcatgg cc 472

<210> 5556
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-D8

 <400> 5556

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 tcgtaacctt ataaccacga tgtacgatcg tgttggtaca caatacgtat gagaaacaaa 120
 tcacaaggaa aaaaatgcta cccacagcag ccgatctctc cttcctcccc ccgtcgacgg 180
 gaagctcgcc ggcggcgagg tggcacgggc gacggacgtc ggaggcgaaa ccgctcgacg 240
 aaacagaagg agggagcagc gctgacgag gcgttgcggc ctggggcgta cggcggcgag 300
 atcgatgctc tgtcgccggc ggcgggttgg ggacgggtggc gagatcgatg ctccagccgc 360
 catcttgctg tttccctttc accgaggata tgcatttgcg aacgtgattt gacgattaca 420
 acctccaac cctcccaggg ccggcccata aagacgga 458

<210> 5557
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-E11

 <400> 5557

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 aatggggttag tgctagtga cctcgcaaat ctgaatttag aaattttctt gctagtataa 120
 ctgtggggga atctagagat atagcagaag ctaccatagg gagcattcat tttcctgcta 180
 tacattattt tgctctcttc ataggtaggt gcataaatgg taaagatgaa gcatgtcaca 240
 tgtgtgtccc tgaccttcag tattcttagg agtgctgtgt taggagacaa atcttataat 300
 ttgggagcca ttgttgacg taggttgc ataatagtt ttaatggaga tttctttgca 360
 ngaatttatg caaccgctt agctaatttc ctggtgtgga catacgtgat gatgat 416

<210> 5558

<211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-E12

<400> 5558

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 tttatccgca cccagtcgct agttgaacta cccatcaagg gtaggacgta cacgtggagt 120
 aacatgcagg atgacccttt gctgggtgcaa ttagattggt ttttttcttc agtgactgg 180
 tctttcttct accctaatac cactgtatcg cccttgggca agcctgcttc agatcacgtc 240
 ccctgcgtca ttggcattga tttgtgcatc ccaaaaagca aggtgtttca ttttgaaaac 300
 tactggatac aacattcagg gtttcacgag atagtgaat gctcttgaag ccaaccttgt 360
 catgcggtca actcagcggc tttgatctgt agaaagctaa agaagctgcg 410

<210> 5559
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-E2

<400> 5559

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 caagcaataa taaaagtaag aaaattagac aagtatctat ctaaagtaag aatttttctt 120
 tcaggagaag attagaacaa gaggtcatc acgggtggtgc aagcgacgag attcgcgccg 180
 gcgatcgacg gccgtgaaga cggggacngg acgtgacaga ccgctaaacc tagacaaatc 240
 tcaaggaaaa tggagcttgg aggtcgagct tcgagaggag aaagcttaac tagcatggct 300
 cgggcatttc attgaacacc tcatgtgcat aggaggtgag ctagagcacc caaatgcctt 360
 ctctcgccg gccagaaaaa atagagcact gtggagtgtc ctgc 404

<210> 5560
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-E6

<400> 5560

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acgtacacag aaagtgaata tagaagtgtt caagactgtg aagcgggagg ttcctggtat 120
atctacgttt cattgtactt agttaagttg atgttactgt tgttttttct cgctgccgcc 180
atgccatgaa caggcgaggc aggcagcttc tcaaacttgt gttgttgtaa cttgtatgat 240
gggagcttaa gtacattact ttgtttcata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaanaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg ggccccccaa 410

<210> 5561

<211> 428

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-E9

<400> 5561

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gccttagcaa tcgctaaacc aactccgaga ggttattgac cacgctggag cacgatcaac 120
ctgaccacga ggggtctgttt cctgcgagca aacgaagaac aagcaagaaa ctaagattgc 180
aatctggata ttgcgaatat aagatgaaag ctttattgat caaggtgggg ttctgtgacg 240
cctttgtctg gtcgttgaac acaaacgaag tacgcgaagt tgcagctatg gcgaactttt 300
aatctaaaca aaacccgaag tctaaacgat gccctaaggg ctctatatat ggaggaagag 360
gggggaattt cgtggccctt ggtggagggg tccgaaatca ccctatctct tgttttccca 420
cacatacg 428

<210> 5562

<211> 265

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F1

<400> 5562

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tctcttgtaa ataccaacaa gctactcacc ttactgggtcc aaacctacta gttgctctaa 120
atgtttaaaa taactttaca attctgtttt gatacaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaagcggg cgctccaaaa gattcaagct taagtaagcg ttcaagcgac gtcaaaactc 240
tcctatagtg taaccaaaat caatt 265

<210> 5563
<211> 370
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-F10

<400> 5563

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gcactgatgg tgaaggtacc accagtgcc a tctccttgg cggacacctt cttggtctct 120
gggtggagctg ccattgtctt cttacacttg ccggtggagc tcgatgggtgc gtccccgacg 180
gtagcgcagc actccaaaga ggtgcgcttg ccggagtggg catccgaact cttgccggac 240
ttggtcttct tcttcgccct gggagcttca acagcaagtg acttgcgatc tgttgcggtc 300
gctgcttcnc ggtagatctt gtcggcgagc ataagagcat ccttcttgtc gccagggaca 360
gagatgacac 370

<210> 5564
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F11

<400> 5564

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tacgttaggt actgaagccc gtagataact tttccgccca ggtttagaac gtcgctgcaa 120
acactacgta tgaaaattga taaatgagat agctcctagt gatgtttctc gctgaactgc 180
tgcgatgttg gacactttgt cagcgacaag gagttatctc ctacgcgacc catcgtggta 240

ttgtgtacat ttgcttaagg ttttgcttat cgttggtatc atctatggta tgcaattcat 300
gggtcggcaa tcataactca tgcaggagc 329

<210> 5565
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F4

<400> 5565

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cctgtagttg taatcattgt tatggtagaa cttgtagtgt aagacaagta tagttgagag 120
tccgagccgg acactcttat gagccggccg ggactctgag ggctgctggg cgtcagcctc 180
cctatataaa gggacgaccc ggcagcgggt tagaggcgag aacaatctca tcgagagctg 240
ggatagcaag ttttagttccc tggatgatcg aaccctaagc aataccatct caactggatg 300
caggctttta ccttcaccgt aaggggccga accagtataa accctcgtgt tccttgtctc 360
atttaacccc ttcaagcttt cctagttgca atgggtccac gactaagtcc tagctcgatg 420
acaatcggcc gtgacatttc cacgacagtt ggcgccacc gtggggcc 468

<210> 5566
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F6

<400> 5566

aattcgcggg tcgacgggct ggtgaacgcg ccggggctcg tgattgacgt ggtgcgcgac 60
gccaaggaga aggaggcgga gggggctgag ttccggctgg aggacgagat cgaccatgtc 120
gccgacgtcg tcatccgccg gatccacaag cagctcaagc tgcacaagct cgagtcgttc 180
acgaggttct gcgagatgat ggagaggagc gcttgatcca catccctaga agcagatccg 240
cctccagtcc agtgaggtat tatgcataag tatgcaactg gccagctcc atcacacct 300
aagccaggat tatgtctaac ttgatccgag acccatgcat gtgagtagaa ggaagagata 360
catccaggca agaagatgct tatcttctgc taaggtttta gtggggaagc caatgggtcaa 420

caacttggga ctttactcat tacgta

446

<210> 5567

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F9

<400> 5567

cccgggtcga cgggcacccat caaaaacgtg ttcattgctga ccagttacat accgttaatg 60

tagttgaggc tgacggggat cagatcgag tcaatggggg tgatgcttgc caccctacga 120

tcattatgct gcgtagcatg ccatttctga agatcaggcg gcatcagcaa acaaggagct 180

ggcttaaaaa gctccggcct gagggttttg agtaaacggg acagccccga cgagcacgcg 240

gcaagcggca tgggtactgag attatccaca cgcgaaacaa tgagcttgat tacctctgtg 300

gggagcgaat tccagccact cttttggcga acgctgcttg gttctgccat tgttactgct 360

tgggtttcgg a 371

<210> 5568

<211> 413

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-G1

<400> 5568

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ngcaaatttc gttgaatttt ggcattgggc aatgttattg acagaaaaag gtgtcaaaaa 120

agtttggggg caatgatgca aagataaatg acacttcctt ctcaaaaatc cacttanggc 180

agaatgagaa aaaggaatat ttgtgaatta tctttgatga tgccaaggaa ggtttttgac 240

atatctatgg aagatatgac ccaaacaaaa ttttgagaac tatttgggaa tttggggagt 300

gacggaaaat ataggttggt tcacaaacta atggcaaaaa tgatgattcc tttaatagaa 360

aaaggaatat tccaataaaa aaaatattgg gaatggccca agatgaaaat gac 413

<210> 5569

<211> 401

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-G10
 <400> 5569
 ccggtctagt attccccgggt cgacgggtcg atacatcagg ggaggcaaat tgagggggagg 60
 catgatgggt cctaatagaga ggcacttttg tatctggaat ggagtcacgg ttcatactc 120
 tgttattgca atttttattc aagcagttgt tgaccaggg agccactgtt tttttatgta 180
 cgttgggttc aggcgggaat atctatgata gcccacagtt atttgtatgt gagaagcatg 240
 gacagacata gagatgcagg tccgttgata tcaactgaggt ttgtctttaa agcaaagtgg 300
 aggcacgcat gtggcttttg tgctggccga accgtgcttc ttttttctt tagtcccat 360
 gtagtatttg cacgataggg tcactttgtt tgcttctct c 401

<210> 5570
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-G11
 <400> 5570

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 caagcaatac aatagtaaga aaattagaca agtatctatc taaagtaaga attttttttc 120
 tttcagaaag aagataagaa caagaggctc atcacggtgg tgccggcgac gagatcggcg 180
 cgggcaatcg acggcgggtga agacgggaat gggacgtgac gggccgctaa acctagacaa 240
 atctcgagga aaatggagct ttgaggtcga gcttcgagag aagaaagctt aactactgtg 300
 gctcgggcat ttcatacgaac acctcatgtg catangaggt gagctagagc agcaciaaagc 360
 cctcccctcg ccggccagag aaaaacagag cactggagtt gctctgct 408

<210> 5571
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-G3

<400> 5571

gggccagaat tccccgggtcg acggggggaag cgattctgca ggcggtaggg caagaacccg 60
gtcaagaatt ggagggcgag gcggaggaga gcgcagatcg agaggggaac ggcgacgaca 120
ctgggaagga agatagtggg tgtaaagatc tggctctggg agaggaccct gtcctgggtcg 180
aggatccaga ggaaggtacc tgtacttctc tggcggtcgc atccaagaac ttgttccgtc 240
cattgttaag cacgcaagaa acttttctgt gctgttattt ggctctatta gctgactgtt 300
ggtagtggtc aactgtaaga tgcaataata caatagaagt tctatggtgt tcttgcggtan 360
gaatagttgc agaagaaaca gtatagctgg ttttcgggtg ttgctaattt taaatttaac 420
aat 423

<210> 5572

<211> 111

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G5

<400> 5572

gtaccggact agaattcgcc ggtcgacggg aggatttacg agtccggaac ctgcttcaag 60
tcggccgcaa cgcgctatga ctccgcttca gtagacattt gtaggatccg c 111

<210> 5573

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G9

<400> 5573

ccgggtcaaga attccccggg cgacggggcg gcagtgatga aataaagaac cacaagtggg 60
tcaaggcagt gaactggaag aaactagagg ctgcacagat caagccaagc ttctgccccaa 120
atgttgctgg gcagacctgc attgcaaact ttgacgagtg ctggacgagt atgcccgtgc 180
tggattcccc cgtggccagc cctgtcgctg cagatagcaa cttcgtgggg ttcagttacg 240
tgcgcccgga gccattcctt caaaagccga gtcctctagg ctgaagacta ctttataatt 300
gtggtatcta agaaatctgg tatcttacct ttgctcaaga cagtaagatg aacctgctgt 360

tgtgcttgtt ttagacttca ctagttgatt gcccgtagt tgccatggaa cacaagaaca 420
cacgtta 427

<210> 5574
<211> 192
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H1

<400> 5574

gggtcgacgg gcttcatagc aaaattacac gagagagaga gatatcactg gtaatgttgc 60
tctggaagta tctcatgcta tgggatcaac aaaaaaatcc agggcccacg tgtggatcac 120
aatccaccaa tgactgacca ggggttcttg cgcacccaaa tttgttgtga ccaactggtt 180
gaactccctc cg 192

<210> 5575
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H11

<400> 5575

ccggtcaaga attccccggg cgacgggaag cactatgtat ctatggaaat ttcagttttg 60
gcatcgagca tctctcttcc ctcacacgag tccatgccat gattagctgc aaatgtgctg 120
tagcttcgga ggtgaatact gtgaaggatg cgatacgaga acaagcaggt aacttgtcta 180
gcaaaccac gatcgaattt accacaataa atgaacacat gataattcct gatcacaag 240
caaagacagc agcagtttcc cctaaaattt ggttaaacgg gtgtatcaac ttcagacaaa 300
ctgcctagca tcgtaagagg tcaggatgga gtcaatttta atcacatgtg gctgaagcac 360
tcatgcagaa caggacacgc gacttcgtct tctctctag tactccctcc gt 412

<210> 5576
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H3

<400> 5576

ccggtccaga attcccgggt cgacgggcta tgctaagagt gtgactcggtt atttttttct 60
tttttttaag aaaaaaactt agtaattata gaaaattaac taataaccaa cctattgctt 120
cgtattgtcg agatcctaac taagaaacag tcactatatg aataaatacc tctatcataa 180
atgagtagat gtgtcatata gttgtagcaa ctgcaatfff ttctctaaaa aagaaaaggg 240
attctaggtt gtgaagcaaa actaaaggga tgtggataaa gggagggatg atagaaagaa 300
ggaagaggaa ataaattaga ttttaggatt caacaaggta gggtcatgaa tttcatcata 360
aaaaggaatg tgataaagca tcaatataat aaaaataata gagaattaaa aattttaact 420
tgaaacaaga actacaaatt taaagcaata ataaagagcc gcccgggt 468

<210> 5577

<211> 309

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H5

<400> 5577

ggtaccggac tagaattccc gggtcgacgg ggagcacaag gagaagaagg acaagaagaa 60
gaagaaggac aagaagcacg gcgagggcca caaggacgac gacggccacg gcagcagcag 120
cagcgacagc gacagcgact gagccagctc cggccgcgtg cagtgcaggg gagatgaacg 180
cgtgggttaa tttggagcgt gtggtagcat atgtatgtaa tgcttgacat gtctcatgga 240
tcttgtaatg taataaccgg ctgcactgca tggtgcttgt aataataacg ttaaggaatt 300
tccattggt 309

<210> 5578

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H9

<400> 5578

ccggtccagt agttcccggg tcgacgggga ccacaaggag aagaaggaca agaagaagaa 60
gaaggacaag aagcacggcg agggccacaa ggacgacgac ggccacggca gcagcagcag 120

cgacagcgac agcgactgag ccagctccgg ccgcgctccg gcagcagcgt gcagtgtagg 180
cgagatcgat gaacgcttgg gagaagtgtg gcatacatat atgttgcagg gtttggagcg 240
tgtggtagca tatgtatgta atgcgtgaca tgtctcatgg atcttgtgat gtataataat 300
tagccggctg cactgactg cacgggtgctt gtaataataa cgtaaatgaa tcatgttggt 360
attgatac 368

<210> 5579
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-B7
<400> 5579

gtaccgggtca cgaattcgcg ggtcgacggt ggctacaaag tgggtggtgg gtgggcctcg 60
aattttcttcg ccgtccgtat cccaaccatg ctgaccgtaa tccggccagg gctctcctga 120
caaagagaga gacttttagtg aattcaggat gtcgccaaaa ggcgagtgtc gaaagacgtc 180
cgcggcgggtg aactccatga tcggagccca atcggggttg atcggaaggg gtgcggagga 240
ttcggaggtcc ggaacggagt ccggcacctt ggaatcacgg gccttgcaaa ggactaggct 300
ggtatttggc tctatcgccg taaagattgc ggctcctggg gcagcgtcca atcgtccgtc 360
cttggttggt gtagtcggct ccgggataat ggtcggagcg gacacctgag ccgcgctctg 420
gg 422

<210> 5580
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-C1
<400> 5580

accggtcaag aattcccggtg tcgacaagat tctggcaggc gatgcccgaa ttctcgagcg 60
ccttcacatc attagtgtg tccaccgtag cgaacatgta gtgggggcta ttgacaaacc 120
tggcgaaacg ctgcgaatgc cttgtcgtca ggcagtagtg gtagacgagg acgtggtggc 180
gcacacacat ctgagcgacg acgaccttgg gacgcgaccc ggcacgagcg cgagcgtact 240

caaggtcgaa cccgaccacc ttgtacttct ccgcggcaag caagagctcc atgatgtgga 300
 tgtagtgctc caccacagaat gggtcgttgg tgtacaccat caagaggtac atgaaccttc 360
 tgggtgggtgt ccaccacggc acgcatgggtg aactgctgct cgtcgtca 408

<210> 5581
 <211> 331
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-C11
 <400> 5581

gtaccgatca agaattcccg ggccgacggg gcttggagta gaatttgtaa tgctcaaaat 60
 agatctacta ggaagctttc tacttccggt cttctccgca atttttatgt aggcataact 120
 ccttggaata gatgtgttct tgatactggt gccggaggtg atttcttgag tagccatacg 180
 tttgacgctt ataatgctat gttagatttg tttggccac cacctctttt ggtaaatgga 240
 actgttttaa ctttagaaca cgttatgcaa cggcttgatg ttatttaaaa taaaatggcc 300
 agtggttgatt tgattgaaaa tttggataaa a 331

<210> 5582
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-C12
 <400> 5582

gtaccggact agaattcccg ggccgacggg tatcccacta ggagcatgcg cgtagtactt 60
 tgtttcgatg actaatagat ttttgcaata agtatgtgag ttatttatga ctaatgttga 120
 gtccatggat tatatgcact ctcacccttg catcattgct agcctcttcg gtaccatgca 180
 ttgccctttc tcacottgag agttgtgcaa acttcgccga tgcattcaaa cctgtgata 240
 cgatacgctc tatcacacat aagcctcctt atatottcct caaaacagcc accataccta 300
 cctattatgg catttccata gccattccga gatataattgc catgcaactt ccatcatcat 360
 catatacatg acttgagcat ttattgtcat attgctttgc atgatcgtaa gatagctagc 420
 atgataattt catggcttgt caattttttg 450

<210> 5583
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-D11

 <400> 5583

gtaccggacc agaattcccg ggccgacggg tggcgagtg gcgccaacac ttcccgcggg 60
 acatcatcaa cgagcgcggg ttctatgcgc aaaggagggc ggagagggat aagatgaggg 120
 cagagcgaac cgcctatcgc gaggacaagc gtaggcgaaa agtggacgct caattcaaca 180
 tgaggctagg agcagcgctc ccttgggaat tggacgacga tcggtatctt ctgcctaca 240
 gtcatacgtc agaggaggac atcacctagg aggagtcaga caacaaggag tagttgaatt 300
 atcttttttt aaccaaccat gctgagaact atcctctact ctatctactt cttgagctca 360
 gcactgtaaa cacttttttt aaagcgccgc gcattgtgat tctgttggag atgctctaac 420
 atggcagatg agtgctttta tgttgccac aag 453

<210> 5584
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-D5

 <400> 5584

gtaccggtca tgaattcccg ggccgacggg gtccacaatc atccttgctg tacacacctt 60
 ttgagagata cacacatgat tcagaaattg ttagaacact ctatgtgctt cacttatatc 120
 tattgagtta tatagttttt gatctagtgc ttcacttata tatttttaggg cacggtgggtg 180
 gatttgtttt atagaaacta ttcttctctc atgcttcaact tagattcttt tgagagtcct 240
 aaaaaacagc gtggtaattt gctttaatta tgtaggcat tcaagattaa taaaaaatt 300
 cttatgagtg tgttgaatac tatgagaagt tttatacttg ataattgttt tgagatatgg 360
 agatggtgat attagagtca tgctagtga gtagttgtga atttgagaaa tacttgtggt 420
 aaagtttg 428

<210> 5585
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-D6

 <400> 5585

gtaccggtca tgaattcccg ggtcgacggg ctatttaaaa ctgctcgacg ggagcttaat 60
 cttccttctg ctaatgaatt gattagttct cagtcaaaca atgaggcaaa tggaaatctg 120
 gaaaacacac aggaagtgcg ggtgaaccca acgagcttat ctcaatacag ggacatccag 180
 agaaagattg ttgagtttat cagaaagaga taccatattc tggaaaaatg cttggacatt 240
 gaatatgccg tgataaaaac aaatactcct gttcctgatg atcttactga acaaaatggt 300
 cctatgggac atagcccagc tgttccagat atcagtgaag tgttgagaga acttccccct 360
 cttgtaccaa tttctgccaa agaagtggct tctgatggct caactgacca ggcacacctt 420
 tcccatcttt 430

<210> 5586
 <211> 176
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E11

 <400> 5586

atcgacgggg atccaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaccgg ccgccctaaa ggttcaaacc ttacttacct 120
 ttgcatgcaa cttcatagcc ctccaaaagt gtcaccaa at ttcatttcac ggcctt 176

<210> 5587
 <211> 337
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E2

 <400> 5587

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 gctccaagtc gcaggccaag accaaggcca gggaaaggct catcgccaag gaggctgcgc 120

agaggatgaa ctaagcctag ccttatatgt cagagcatat gccatgtagt ttccctttca 180
 gtgtgtcctg attttgacga ggaactcgaa cccttttagc agcactgtgg aatcgtattg 240
 tgggttttctg attctctgtt cggttcgcca gacttatgca aagatcagat gaggtttacc 300
 catgtttgga ttctatatag ttttatgccc tttgtcg 337

<210> 5588
 <211> 225
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-E6
 <400> 5588

tgggactccc agtagtgagt cgtattagat atttattaca ttagttagtg actagattgg 60
 gcaggttagt tagttggtgc cattcaatgc atgtgcaagc tcccgatc attatcatgg 120
 tcatcatcag ggtgtgatga tagcttagac ttgatcaatg gcacatatta gtacttaa 180
 gacgtgatcc tggttacggt tatccagtaa tctgatgcct cgggt 225

<210> 5589
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-E8
 <400> 5589

aattcgcggg tcgacgggtc atcaaaagaa tcctgcaaca tgagacgttg cagccatgta 60
 ggtcagtata ttgaatgtac tggcaatttc acgctgtaga gcaatgctaa ataatggcta 120
 tcactacatg catatttggt tgggtggaggc tctaagttta atttttgcat aaagccaatt 180
 ttttctaca acaaaggaat atattttatt taactataaa gtttggtgaa aacattgaga 240
 aggttcctcc aactcaatcc caaattaaca tcaataacct aacaaattat ttaaataacg 300
 tgatgagatc aacatgataa ttcaagaacc agatacccaa gatgtccaca accagggata 360
 cggctagtca tgactagttt gtacactctg ctg 393

<210> 5590
 <211> 371

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E9

 <400> 5590

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 caatggcagg ccaggcacia cgggtcgtac ctgagcgagg acgagaggct gcgtcgcttc 120
 cgggtgtacc gcgacaacgt ggagtacatc gacgccacca agccggcgcg gcgacctcac 180
 ctacgagctc ggcgagaatg agttcgccga cctcaccatc gaggagtcc tagccaggta 240
 cgctcgctcc tacgatgggg tcggtgatga tactggcatc acgttgcttg tgggcggtgg 300
 cgacgccgag ctgtggctgt cctgcggcga caatgatagc tccttgagg ctccgcctcc 360
 cagctgggac t 371

<210> 5591
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-F11

 <400> 5591

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 ctcaaaacaa ctatcaagta tcaaacttct cttactattc aatgcacttt ataaactacc 120
 atgccgttct aagggaactct caaaatgata taagtgaagc atgagagatc aataatttca 180
 ataaaatata accaccaccg tgctctaaaa gatataagtg aagcactaga gcaaaattgt 240
 ttagctcaaa agatataagt gaagcacata gattattctc ataaattccg attaattgtg 300
 gtctctctca aaagggtgtg acagcaagga tgattgtggg gaaacanaac gcanagactc 360
 aaatcataca agacgtcca agcanaacac atatcatgtg gtgaataaaa atatagctcc 420
 aagtaaagtt aacgaatgga cgaagacaaa 450

<210> 5592
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F5

<400> 5592

gtaccggact agaattcccc ggtcgacggg tgtgattatt tgcttatggg gggttccggg 60
agggattgaa acctgtaccc caagttgtga gtcgttgcat atgggatgaa gagggcaatt 120
tatcttaagg tcatagttag gtttgcctta atgaacttgt tcgtatttgt ggatatttgc 180
taatagttct aatcataagt gcataaaaat ccaagaaaga aatagtatgt tagcagaggc 240
ctctcccaca tataaaaacta caatgacgat tatcgttctg ttatcaattg cctcccaaaa 300
taagagtctc taccttagta caactttgta ctaaagttag tccaaagtca agacacttat 360
ttcgggatgg agggagtatt aggataggaa ataccataat aattttcttg aaaca 415

<210> 5593

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F6

<400> 5593

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tgtgctcggg ggaggggggtg tgtgtgtgat gtgtgttgcc tctgtgtgtg tgtgtgtcag 120
atattgagag aaaacaaacc taaggagaga aatgtgtgtg tatgtgacgg aaagctactt 180
gctaaacagg gtattcacga agagattgtg cgtgcgagat agagagcgat gtgcgggcct 240
tgagggtgggc agggggccggg tgagggtgtc aaaatgtgcg ccttgatgca tgtgttacat 300
gcgatcgtgc gagggacgga cgaatcgaga gagatggttg ttgtgttacg gatgttcctc 360
tctctctcac atacacacac acacaagtaa aatagaagac cgttctctca tgtatacac 419

<210> 5594

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F8

<400> 5594

aattccccggg tcgacgggta ttataataac agatctcacg aagggttttg ttaagttttg 60

tgtgggtgaa gtgttcaaag atcgaggagg tctcgatatg aggagaagga ggagaggtag 120
gagttcaagc ttgggggatgc ccaagtaa atgcgaggag actcaagtgt ctaatcttgg 180
ggtaccccg g aagcatccc atctttcttc aacaagtatc gatatgtttc agttttcggt 240
tcgttcatgt gatatgctta aatcttggag tgtcttttgt gtttagtttt tgctttttat 300
tttatgcaca atgctgggtat gatatagtcc atgggtgatt tatggaattc tctttgcact 360
tcaattatat cttttgagta tggctttata gaatgcttca tgtgcttcac ttatatcatt 420
cgaagttggg atgcctgggt cccc 444

<210> 5595

<211> 437

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-028-Q1-E1-F9

<400> 5595

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tctcaaagcc atgagaattt ccattgacaa gtgcaaagaa agaactgcta ggatgcgtgc 120
taagaaagat gcctttatga aagcgtgttc ttctagtctc tatgaaaata atgatgaaga 180
tctaaaagtt attgatgtgt cccctattaa atctttgttt tgcaatatga atcttgataa 240
tgatcggact gaatatgac catctttacc tagaaggcgt tctaagaatt cagaatttat 300
tggtcctgat gctaaatttg ataaaagtgg gattgaagaa attaaaacc tagatgttgc 360
taaaccact atattggatt tcaaggaatt taattatgaa aattgctctt tgattgattg 420
tatttcnttg ttgcaat 437

<210> 5596

<211> 458

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G5

<400> 5596

gtaccggtac agaattcggg ggccgacggg tttgcatttt gttcccagct tgcaccgtca 60
ttgagccatt ctaccatggg tctcttccat ttccgatgat aagcaaattc atccattacg 120

ttgtcttcaa caaggtaatc cacatcatcc aagtcgagt atgccattct accgaccccc 180
 tccaaacgat cgctcgagga ttgtcttagg ctggtttaaa gagtttcaat gatctttgaa 240
 tcaaaagtaa ttctttttgc cacttaaggg gatatttcta cgagtcacct tccctaaggt 300
 gcctcgttgt gggttcatgg caactcaact cctcgctacg ttgacaatcg attaccacct 360
 tcttaagcgt gaaattgttg tctacctagt gaaccctcgt tatctgttcc actccatccc 420
 cccaaggggg tgtgcttcgt ctctcagctc aagagatg 458

<210> 5597
 <211> 411
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-028-Q1-E1-G7
 <400> 5597

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 ccagaagaaa atggtgatgg tgctgaggac gaggagattg aggatgatga tgctgaggat 180
 ggtgaggatt ctgtcaaggc gcaatcctct tcgaagagga agaggtctgg cgcgaggat 240
 gaagatgatg atgacggtga tgatgatggt gatgatgatg agaagcctcc atcaaagcga 300
 tagtcaattt gttcttgctg atctgggtatc tttctgctt gggccaagaa ggaaaataat 360
 cctcacggag aggggtgttg gtaaagtctg tagctttagg acatctgtgg t 411

<210> 5598
 <211> 424
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-H5
 <400> 5598

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 ggctggggag actatccgcg caaccctggt tcttggtgat ggcacgggc ctgagatcgc 120
 cgagtcggtc aagcaggtat tcaatgttgc aggtgtaccg atagaatggg aagaacatta 180

tgttggtacg gaagttgatc ccagaacaga gagctttttg acatgggaga gcctggagtc 240
 ggtgcgtaga aacaaagttg gcttgaaagg tcctatggct acacctattg gaaaaggcca 300
 ccgttctttg aatcttacat taaggaaaga acttggactc tacgccaatg tcagaccttg 360
 caacagcctc ncaggctaca agactagata tgatgatgtg aaccttgtga caatccgtga 420
 aaat 424

<210> 5599
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H7

<400> 5599

gtaccggact agaattcccg ggccgacggg caggaacaga tgatcacaca atatcttttg 60
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 aggaaacatc taaaaacagc cgttattcgt tattgtgctc ttccatgttg cgccgctgac 180
 aagaggatgg aggggttttag tcgtcgtcgc ggagaagaag ggtaaccacc aagcaggaga 240
 gagggaggaa agctatgcc gttcgctgga agccaggcaa cccggcgcca tcgtcgagga 300
 gagcgaggag gggctagatt acgccgccac agaggtgagc tacgaggggc tgcggcgctc 360
 ctgcatagga ggggggagag aagccgccac cgcaccacgt gattctgc 408

<210> 5600
 <211> 375
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A1

<400> 5600

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 tcatcgtggg caagggcggc aggatccggg actcgccgca gcacgccggg ttccgcaccc 180
 agtccgacgg cgacggcgtg agcgtcttcg gctccaccga cgtgtggctc gaccacctct 240
 ccctcgccac ctgccaggac ggctcatcg acgtcatoga ccagtccacc ggcgtcacca 300

tctccaactg ccacctcaca aaccacaacg acgtcatgct ctteggctcc agcgacagca 360
 accccaaaga cgaga 375

<210> 5601
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A4

<400> 5601

cgggtcaagaa ttcccagagtc gacgggtaga aggaagaaga aacacaaagg aggcagcata 60
 aagctcaaac tacactgacc atgttgccac ttggccaata tgcaaattca aatctacaac 120
 caacaggacg catattcagt ttccaactac aactaagata accaatccac cggaactgaa 180
 taacagtgtt ctctaacttc cactaaatgg aacttagtaa aaggtaaagt gtccatactc 240
 gattattcac caagagaatc aagtactcag atttcgcaat ctaggtgaat gagtgggttg 300
 aaggatgaac aaatgaatag gcttgaaaat gacaatatag gacttaagaa tgccctgttta 360
 cataatactc ctccgttcac aaatagaaga tgtttttgat atttcaatta tggactacat 420
 actacggaat gaaatgagtg aacaaacaca ctaaaatgtg tct 463

<210> 5602
 <211> 67
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A7

<400> 5602

ctactcccaa tagtgagtcg tattagttgc tttagttctc atccatgac tatttttcta 60
 cttcatc 67

<210> 5603
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A9

<400> 5603

attccccgggt cgacgggcaa aacaacttca accgaatgag tacaactctg ggacattttac 60
tctgtccaac ttgggcatgt ttgggtgtaga tagatttgat gcaattcttc cacctggcca 120
gggagctata atggctgttg gagcctcaaa acctacagtg gcggctgata aagatggttt 180
ctttagtgtt aagagcaaaa tgatgggtcaa tgtcacggct gatcacagga ttgtttatgg 240
tgctgatttg gctgcattcc tgcaaacttt tgcgaaaatt gttgaggatc ctgagagcct 300
aactttgtag gatgttcttg gaagtggctc atgagttggt caaccgtcag ttcattttcca 360
gttggaagtc tatcgctgag tttgtttttc gttttcctat ctgtatcct 409

<210> 5604
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-B10
<400> 5604

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agcatgcacg tatggtgaac cgttatgtga tgaagtcgga gcatgattta tttattgatt 120
gtcttcttta tgagtggcgg tcggggacga gtgatggctt tttcctacca atctattccc 180
ctaggagcat gcgtgttata ctttgctttg ataacttcta gattttttgca ataagtatat 240
gagttcttta tgactaatgt tgagtccatg gattatatgc acttttcccc atccttccac 300
cattgctagc cactctaata ccgcgcactt tttgccggtc tcatacacct accatatacc 360
ttcctcaaaa cagccaccat acctacctat catggcattc ccatagccat tccgagatat 420
at 422

<210> 5605
<211> 472
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-B2
<400> 5605

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gtcgaagcct attcagctgg gaaaaagcga gtgacatgca gtttggactg gagcctagtg 180
gtttgatgga agcgtgaaac tcgtcatcgg tcggtgatga tcggtggtac tctgcagtgg 240
gggttgagtg gtgtggttta ggcacccttg agactcgacc gggacagcgg aggctcgacg 300
cgataatagc ggtgaggcat gcggtagcac ggggcatgga gacggggccag ggctctggtg 360
gtcatacatg tggtgaggca actgcgaatt tgactcgggg tgactacaag caaatggtga 420
aaatcctttc aggtttcaga caggcgggtca agaaatgagc ggtgatattg ag 472

<210> 5606
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-B3

<400> 5606
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agtaataagt atttgatggg ttgctagagt gacagaagct tataccctag tttatgcatt 120
gcttcgtacg gggctgattt ggatccacat gtttcaagct atggtttaggt ttaccttgat 180
acttttgttg tagttgtgga tgcttgcaat agtgatgagg acatcaatac aattgttaca 240
cccacagccc ctgctgctat acatactgga ccaattacta gagctcgtgc acgccaacta 300
aattaccagg tactttcgtt tcttggtaat gattctaattg ttcattgagaa tatgatgctg 360
cctaaattgg atacatttgt tttgc 385

<210> 5607
<211> 456
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-029-Q1-E1-B4

<400> 5607
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gcacgcagca acgaggcggg cgaggaggcg cggatcaagc agctggagct gcggcagggtg 120
aacaagggtga aggcgctcgt cggcgccttc gagaccgtca tggacgacaa ccaaagcccc 180
accgcgcgcc gcaagccgcg gctcaacctc ggcgcctgaa ctacgagtac attcgatgag 240

catgaagctc gatcgcgtgc gcctcctcct ttatccccgc tactctttaa tcacccatca 300
 acccaatttg tcgtcgtcgc acacttatct ataattacgg tatcgcttat attctgcaag 360
 gaggaagatg atggaagggt tatcatcatg atggtattat aataatgatc atggagcana 420
 aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgcc 456

<210> 5608
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-B6
 <400> 5608

cgggtcaagaa ttcccgggtc gacgggtagc tagatggctt cttctctctt tttggatctc 60
 aatacaatgt tctccccctc tcttggtgag atctattcga tgtaaactct ttttgtggtg 120
 tgtttgtcga gatccgatga attgtgggtt tatgatcaag tttatctatg agaaatattt 180
 gaatctctc tgaattcttt tatgtatgat tgagttatct ttgcaagtct cttcgaatta 240
 tcagtttggg ttggcctact agattgatct ttcttgccat gtgagaagtg cttagctttg 300
 ggttcaatct tgcggtgtcc ttaccagtg acagaaaggg ttgcaaggca catattgtat 360
 tgttgccatc gaggataaaa agatgggggt tatatcatat tgcattgggt 409

<210> 5609
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-B7
 <400> 5609

accggtccag cattccccgg tgcacctccg cggacgaggt gcagcgcag atggcggaga 60
 tcgacaccga tgggtgacggc ttcactgact tcagcgagtt catctccttc tgcaacgcca 120
 acccggggct catgaaggac gtcgccaagg tcttctgaat cagttcattt cacctcagcc 180
 gtccgatcca ggagccgatc catctacgta cggcttcgta tatcaatttc atgcaactac 240
 ctactccggt cccgatccag cctcagcttc acctgaggcc ggcctaatt ttgtttgatc 300
 aatttttttg ctactagtag taactagtga tgatcactgt tgcaccattt atttatttta 360

tatcgtcaca actttccagt gtttcttttc tttctctacc tttttggcca ttgttcgggt 420
 caagctcgat cgaacgatcc atgctgctaa ttgtttgtgt a 461

<210> 5610
 <211> 254
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-C10
 <400> 5610

ggtctagaat taccgggtcg acggcgtatg tcatatttag gtaggaattt tagagttcca 60
 gaactttgcg ttacttacag attgctacag acttttctgt ttttgacata ttctgtattt 120
 cttgtgtggt ttgcttattt tgaggcatct atggatatta aattatttta taaacaatat 180
 tgaagttgga atacattagg ttaatcacca attaattaaa taaggattta ataacgttac 240
 ctaagttgga gggt 254

<210> 5611
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-C12
 <400> 5611

ggtcaagaat tcacgggtcg acgggcatta ctattttaat gtggaaacaa tttttagtgt 60
 tcaaatctct tatgatactc ccaccattcc gaatgaaaag aattttgctt atgtggagag 120
 tagtaaaaat tctatgcttg tagatcatga aaagaatgct ttaggtggtg tttatattgt 180
 tgaattcatt catgatgcta ctgaaaatta ttatgaggga gtaatatatg cttgtaggaa 240
 ttgcaataat gtcaagtttc ctctctatgt gttgaaaatc ttgaagctat gcttgtttta 300
 cttccaatg ctagttgatt atcgttccca taagttgttt gctcacaaaa tccctatgca 360
 tacgaagtgg gttagactta aaagtgctag tcatatgctt tatgatgctc ccgttaa 417

<210> 5612
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-029-Q1-E1-C2

<400> 5612

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ctcaccctga tattttcaat atccttctcc aaatttttga agatgggcat ctggcagact 120
cacagggtcg cagagtttcg ttcaagaaca cattgattgt catgacatca aatgttggtt 180
ctacgtcaat ttcgaatgga cgacggagca tgggtttctc aacagaggat actgagtcga 240
gcagatatgt cgcggtgaaa tccctcgtga tggaagagct gaaaggattc ttccgtccag 300
aattgctcaa caggattgat gagacggttg tcttccgtcc tctggaacag actcagatgc 360
tggcgattct cgatatctc ctagaggaac ttaagggcaa gctcttgcc gtcgggatcg 420
gcctanaggt ctccgatgcc atgaaggagc t 451

<210> 5613

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C3

<400> 5613

accggtcaag aattccccgag tcgacgggag ctagattttg ttgcatttaa tgaaaacctt 60
agaaaaaagg ttccctaccaa tattctagtt gatagaattt ctgaacttaa tgacgatttt 120
gctattcgaa ataatgagct aggatattct ctggaatata ggctcaccaa gttctgtcaa 180
aagaatgcct ataatgatga attggttatg caatatgaag ggccgaagga ggaacctata 240
cctcctaagg ttgatcttgg ggatttttgt cccattaaat ttagcccttt tgattacttt 300
tgcttgccac aaagaaagct tgctgccgaa cgtagagagt atgaaatgag ttttaatgat 360
ctatcttatt attatggcag tacctag 387

<210> 5614

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C4

<400> 5614
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 tgagtgggtg gtggtctaag agtggcagat agttttcaga caatgtgcgc catcttcgga 180
 tccttttcct ggcacagaac cgctaagtac aactaccac acaatcatgg ttgatgagac 240
 aactcatatc tttgaccgtc tgcgtgtatt gttgatgaat catggttggt tgatgagaca 300
 atcacatcat tgcccgctg cgtgctttgg tgatgatttt tcacttagga atatggcaaa 360
 atgttttctt gaatccatcc ata 383

<210> 5615
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-C6

<400> 5615
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 tttctcgtct cgctcgtggg ggcattgccg gtgctgtccc gtggaggcct ggaggatgga 180
 ggaggcgggc caaacggtgg tatcgggtgt aatggtgggc ttcaaaagtc tgtcgggtgct 240
 aatattggtg ttggtgcgaa tggaggcgtt ggtgctggtg ctggtgctgg cattggagca 300
 aatgtaggtg ttggagcaaa tgtaggtgcc aatgctggtc ttggtgccgg tgcaaatgga 360
 aatggtggtg ctggtcttgg tgcggtgca cataaatcta ttggtgcaa atgttggtgt 420
 tgggtgcaaat ggaggcgctg gtgctggtgc tgggtgctgg 459

<210> 5616
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-029-Q1-E1-C8

<400> 5616
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ttttgtttgc aagtattttg atttgatttt tcttaaagca tgggactggg catcccggtg 120
 accaaccatg ttctcgtgag agaggagcgg agtccactcc tcttgagaat aaccaccta 180
 gcatggaaga tacaacaac cctagttgat acatgagcta ttcgagcata caaaacggaa 240
 tttcatttga aggtttggag tttggcacat acaaatttac ttggaatggc aggtaaatac 300
 cgcatatagg aaggatatggg ggactcatat ggaataactt tggggtttaa ggaattggat 360
 gcacaagtag tattcccgtc tagtataagt gaaggctanc aaaagaatgg gaaacaacca 420
 actagagagc gacaacagtc atgaacatgc attaa 455

<210> 5617
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D10
 <400> 5617

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 gcgctcgacc aattccaccg aggagacatg cgtggattag cggtgatcaa taaggcacta 180
 gtatcattac tacctgatac gtctccaacg tatctataat ttttgattgt tccatgctat 240
 tatattaccc tttttggaag tttatggggtt ttactttaca cattattatc atttttggga 300
 ctaacctact aaccgaaggc ccatcccata tttgtagcga ccagacctca aacagtccga 360
 tctctgtgca tcagtgtcat ccttgggtca gtaatgtga cacgcacag 409

<210> 5618
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D11
 <400> 5618

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 aagcagccgc ctggcagtcga gaagggtgcc tactacgcca tccatcacat gggggcgatt 120
 gtacggggacc agcatcaact tctgctaccg agtaaaactca aagattgggc cgcgagcatg 180

ttggcaatcc aggacgcgga catcagacaa gaattctttc gcatccagtc ggagtttgca 240
gaaatcatct atcaagatgt ccttcgtacc tcggggcagt tctacctcag aaatcaaccg 300
tccaacagtg acatcgacac aatgctacaa atgcaggctg acaatgaccg ttatttcatg 360
actcccatga tagacggcga ctccatccac gtcgcggtcc 400

<210> 5619
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-D2

<400> 5619

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cggatggccg gactggcaag gatgatgcgg atctctctcc tgaagacggg tcagtggttt 180
gatgatgatg gcagcttgta aaacgtgtgc gtgtggtgta cgctttaggt ctgctgcacc 240
ggctgtttgt tccgatacgt tatgtggatg aatcggcaat gacaccggtt ttagatatga 300
ggagtgaag cactccacat tatcggttt gtaggtgtga atggtggctt cgggtgacct 360
gacgtatgtt ttggtcagtc ctttgctgaa taagttaata aagatggccg tatgcatcaa 420
ttgatgcaga ggccggagggt ctcaacctcc ttt 453

<210> 5620
<211> 454
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-029-Q1-E1-D3

<400> 5620

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tttgcttcac atacggcacg tggtttgcta tagagggcct atcggcagtt ggacagtgtt 120
acaataatag cacctacatc cggaagggtt gccagtttct attatcaaag cagctaagga 180
atggtggatg gggtgagagt catctttcat ccacaaccaa ggcatacacg aacctagacg 240

gggagaaatc acatgtagtc aacaccgcat gggcaatggt ggcactaatg aaagctggac 300
 aggccgaacg agatccgtct cctttgcacg aagctgcaag acttatcatg agcatgcaac 360
 ttggcaatgg tgacttccca cangangaaa tgaatggaat ttccttgana aagggtccct 420
 tgtgttatat ggcttatcgc aacatattcc ccat 454

<210> 5621
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D5
 <400> 5621

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 cataggtttc actagtggct actctcaaga tagcatatat tatgggtgggt gaacaaatta 120
 atgccgagca attgatagaa aatcgcatag ttatgagaat atctaggcat gatcataaac 180
 atacgcatca cgtccgtatc aagtagaccg aatgattct gcatctacta ctattactcc 240
 acacatcgac cgctatccag catgcatcta gagtattaag ttcataagaa cagagtaact 300
 cattaggcaa gatgacatga tgtagaggga taaactcaag caatatgata taaaccccat 360
 ctttttatcc ttgatgtcaa taatacaata tgtgccttgc tggccctaaa gtcaattgga 420
 aaaggacacc gcaggattga acccaaagct a 451

<210> 5622
 <211> 264
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D7
 <400> 5622

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 tgttgtatga aatggcgcgga tggatgggtt ctaggagttt ttcttttgga cgggggatgt 180
 acgaaactga cttgcgcgcg tctctccgct cgtgggactc ggggaaacag tgttcccctt 240
 cgaactgttg tctgtatgt ttg 264

<210> 5623
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-E10

<400> 5623

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ggctctagaat taccgggccc acttccatca aaacgatatc catcatctca tcgaaagacg   60
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gtttttcgta gtttagatcg agtctgttct tcatacctac agtccacgaa aaagccacaa  180
aaaaattagg gttagtccag tatatccgaa ccaatctgag cctttgcata atcttttagg  240
gtttttgctt tgttgaattt gcggttgcat cgtcatgtca agttgctggt cttagagtct  300
agtcttttag agtttcgagt tctggtcata agttgtcacg ccgccgccgc accatcatca  360
tcgccttgcc atctaccact attgcttatt cgccaccgct ctgaat                    406
  
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<210> 5624
 <211> 476
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-029-Q1-E1-E3

<400> 5624

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acctgtacat cggcctcgtg tcagtgttag cgtcagcggc gtcgcccctg acgcacacta  180
tagagacggg gcggcggcct acgcgggcct cgccggtgcc cacgatcaag aggaagacgc  240
tgccgtcctc ctccgagact agcaggaggc ggtgatcctc cagcgactcc gacatggtga  300
acgggtagca catctcgtac ttgatgttct ccgccaaggg ccagcaatgg acgaagggt  360
ccttgagggc atcgaccagg ccgtccatga aatgggagtg gctgttaggg aacatgcgca  420
agttgantat atgagcaagt tactatgaga ttaaatccga ataagcacia aataaa      476
  
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<210> 5625
 <211> 453

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-E4
 <400> 5625

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 gcctggttga tgtctaccgc aagactctca agtcagatgg tattgctggg ctttaccgtg 120
 gattcaacat ctctgtgtt ggaatcattg tctaccgtgg tctgtacttt ggactgtatg 180
 actctctgaa gccagttctc ctactggca ctctccagga caacttcttt gccagctttg 240
 ctcttggttg gttgatcacc aacgggtgcag gtcttgcac ttacccatt gacaccgtcc 300
 gcagaaggat gatgatgacc tctggagagg ctgtcaagta caagagctcc ttggatgctt 360
 tccagcagat cctggcgaaa gaaggtggca agtccccctt caagggttct ggtgccaaca 420
 tcctccgagc cattgctggt gctggtgtgc tcc 453

<210> 5626
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-E5
 <400> 5626

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 cctatcgccc aactcactt ggcgacggtt ccaaatgtcg tcgcggaaag gggtaaagaa 180
 ttgtttgttt aggatcgacg gcacaccagt atgcgcacgt agttcaaatt tgaattatgc 240
 acataaatgc attgagaact cagttaatgc ataaaaatgt ccaaacgaac cccgaaaaat 300
 cataaaaatt cacacaacgc tccggttgtt ctatgttgac acgagaaaaa aaaaatgaaa 360
 gcaataagag gcaatggata tcgtttcctc cccaaa 396

<210> 5627
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-E7

<400> 5627

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tctctggatg cctaaagtca gtatgtcaat gtaatgtaaa catccctttc ccttccct 180
ttcttcatgt agcttcggtc tactccttag tagtcttggg aaagcttggt ctttgtagtt 240
gcttcagcta ctggtactgt ctattgtgtg tgatgtaata tattatggac cattatggca 300
ttccttttca aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga aaaaaaaaaa 360
aaaaaaaaa aaaaaaagc ggccgct 387

<210> 5628

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-E8

<400> 5628

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tcttgactgc ctaccatctt ggtctaaccg gcctcgggtg ctcttggttg cgggttgctg 120
ccgcttcggc atggcgcttc gaattccatc cctataaaat accatataca caaggtaggt 180
gaagtgtcta aaatgagatg cctgcagttg ggattttggt tattcgaaa tgcgacgcat 240
ggagctgtcc aagatactcg gacgtaatgg ccattatggc atcagcagac ctcaattgaa 300
agaactgact gattatcatc cccatgaata tgcaggatc atcgtcgagt ccgaggacca 360
tggtccagtc aaggtcatct ggttgtggat atgggctggt 400

<210> 5629

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F1

<400> 5629

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gtttctatga ctaatagatt tatgcaataa gtatgtgagt tctttatgac tattgttgag 180
tccatggatt atacgcactc tcacccttcc atcattgcta gcctcttcgg tatcgtgcat 240
tgccctttct cacctcgaga gttggtgcaa acttcgccgg tgcattccaaa ccccgatgata 300
cgatacgtc tatcacacat aagcctcctt atatcttctt caaaacagcc accataccta 360
cctatcatgg catttcata gccattccga gatataatgg catgcacctt tcatcatcat 420
catatacatg acttgagcat ttattgtcat a 451

<210> 5630
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-F11
<400> 5630

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gtcttcaaga ttctccgggg cagtcagtc gatggtcata aagatgtaac ccttcgtgaa 180
gaatgtctac ggctctgaat gctacgggtc tgaatgtcta cggctctgaa tgtcttcattg 240
actctgagga ccttggtgta gattcaggaa gaagaagaat gaagatggcg ctactaggaa 300
gcaatatcgt ctcttgctct aatatgaact agctttgcag tattgtagta tttgaatctt 360
tcctatgttg tcgctctgtg tctcgatctt caaaactgct ggacggatgt gatgttttg 419

<210> 5631
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-F2
<400> 5631

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tcattaggac attttagtac attgactgat tttctacggg tataatgtgc aaaaatcaaa 120
tttgagctac atgcacacat gacagtgcac ctaaattggat tgcaaaaaca catgtgtctc 180
actgggtgca tgtttactcc tcgtgcaaga aatttcaaac attgagactc ttaattttta 240

aattctagta catccaaaac ttatctaaag ttcataaaac ttatcatggt gtcattctaga 300
 caccaataca aagtggcatt gtactttttt gtcaaatttg agaccagttt tgggtgaata 360
 tgtatctaata tacaacggg agattattaa taatttggaa accattatcc caaatgaatt 420
 atttattcga accgtgagcg ttagacaaac aatgg 455

<210> 5632
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-F3
 <400> 5632

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 acacgcccga ggccaaggag attgtggaga aggcgtgctg ggggaagagg agctgctgctc 180
 tggcctgtgc gcacgaggtg tacggcgagg acctcaactg cccgggcacc acggccacgc 240
 tggcctgtgc ggcaaagtgc tccaagaggc agaggaccgc cgagcaataa gtaagctaag 300
 ctcagatatg tactgctatg tagatcatct catcaccttc acctttgccg accatggtct 360
 ttttcatgct gcttg 375

<210> 5633
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-F4
 <400> 5633

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 accggcccag ctacggccgc aagaagaatg acgacgacga cgacgatgag aggcgggtcgc 120
 ggtacaagaa gcgcgacgac gacgacgatg atgagaggaa gccacggcac aagaagtgcg 180
 acgatgacga cgacgacgac catgagagga ggccgcgcta caagaaacgt gatgacgacg 240
 acgatgacga cgatgacaga aagccgcgtt acaagaagcg cgatgacgac gacgacgatg 300
 atgataggaa gccacgttac aagcacgatg atgatgagga cgacgacgat gataggaagc 360

agcgtcgcgg ggacaaccgc cgccggcacg aatacgatga ttgatcaagg catcatgaca 420
tgagtttagc tgacgctaata aagcatagtt gc 452

<210> 5634
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F5

<400> 5634

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gaagcacgcc gggggccgct gcggcgccac catcctcgcc aagtgatata ctagagctac 120
aatgtcattg ctgatttcta gcgtatatga tcgtgtgcgc tgtgtagtag tatgtatgtg 180
tgcagatttg tagttgtttc cctgtgtata attggatccg gtgcatgcat ccattcccct 240
ccattgtgta taccacacca ttcatggac agcaccaggt gtaggttatt tctctgaatt 300
attcagatgt agtagttctg aacttctcag ttgtgataat atctatggga agaattgtga 360
ttattctgcc 370

<210> 5635
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F7

<400> 5635

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gaggcaaccc aattttgttt gtgttttttt tctgttttag taataaatct tgcattctacc 120
ttctgttttag atgtgttttt atcttttaaat tagtgtttgt gccaaagtaga acctatagga 180
taacctatga tgatagttga tttgattctg ctgaaaaaca gaaactttgc acgcacgaat 240
ttaattttgt caaatcacag agacgtgatt ttgcgttgat tctttttgct gatgatcaat 300
agacagattt tccaggactt actattttgg tagggttttt agagttctag aagtttgcgt 360
tagttacaga ttgctacaga ctgttctgtt tttgacagat tctgtttttc gtgtgggtgg 420
tgcctaa 427

<210> 5636
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F9

<400> 5636

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tttaagctat gcttgccagg ataaccgtgt tcttcaaadc agtgatggaa cggggggcaa 180
gaaaaaagtg gttatacttg gaactggttg ggcagggtgca agtttcttga gaaatatcga 240
cacttctttg tatgatgtcc atgtggtatc acctcgcaac tattttatgt tcaactcctc 300
gttgccgagt gtgacatgtg gcacggttga agcacgcagt attgtggagc caattcgcaa 360
tattgtgaga aagagagggtg gtgcattcag attctggga 399

<210> 5637
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G1

<400> 5637

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ctgccccctt tacatgatga ttattattat tatcttagtg catgtgtatg taatatccac 180
catgaactga tgttacagta gactgccaca ttggtagtgc agtgcagcac agcacataaa 240
aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaac aaaaaaaaaa aaaaaaaaaa 300
aaaaagacat acaaaaaaaaa acgaaaat 328

<210> 5638
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G3

<400> 5638

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ctcgcagata tagtgatttg tgtgttttac gtagcagatt cgggaggcac ttatggcatg 120
acatcattgg cggagacgga atataggttg ggtacaatca tgtgacttca gaatcatgct 180
ttatgaacag gtttcatgag catgggtcaag cgcgatctgc gaatacgttt cgtgaccatg 240
ggtcattgtc atggagtaag ccaatccatt gacactccta tggacccatg gatgatttac 300
atttttctct tgtcccaatt catccacata tgtatccggt tatccacacc cttctaactc 360
ggccccatcg 370

<210> 5639

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G5

<400> 5639

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aacttcactt ggatttatgt gaatataagc gtaagaggtc tagtggcaat gctacaaaat 180
cactgcaggc gatataataa cggtgtgat agacggagac tgaatcagtt gacactactt 240
tgatgtctat cgagccaatg ggacaacaaa gtccttgag aaaagaagaa ccggaagcgg 300
gttatctatc ttcacgagca agttggcgtc tgtaaactt caccggagcc attccagctc 360
tttcagagcc acaaggcaag gaagttgagg aaccaagacc ccaacggtgc aaaacaattt 420
ggcaatcgaa aggactaggg ctgccataag ggacctgta 459

<210> 5640

<211> 280

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G7

<400> 5640

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ttacgttgca gatccgggag gcacttatgg catgacatca ttgggggaga cggaatatag 120
 gttgggtaca atcatgtgac ttcagaatca tgatttatga tcaggtttca tgagcatggg 180
 caagcgcgat ttgcgaatac gtttcgtaac catggggtcat tgtctttgag taattcattc 240
 cattgacact cctatgggcc catggatgat ttacattttt 280

<210> 5641
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-G8
 <400> 5641

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggcccccaaa 240
 aaaaaaaaaa aaaaataaac cccccaaaaa aaaaaaaaaa ccccctaaaa aggccccaaa 300
 aaaaaataaa atggggggccc ttttaaaaaa accttttagg aaaaaaaacc cggattttaa 360
 aaaaaaaaac ctttaaaaaa aaaacccctt ttttaaaaagg ttggaaaaaa aaaaaaagcc 420
 cccaaaatta tcccccaaaa aaaattttcc cccaaaa 457

<210> 5642
 <211> 458
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-H5
 <400> 5642

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 ggaaaccctt cgaacttctg ccttccccag taaccacgtg aaggaaaagt gggcgaagaa 180
 cctgtacatc gcctcaatct gctgcgggag aaccgcgtgt tgacgacgta cttgagctcg 240
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tcagcgtcaa ccttattatc taggtttcga ggcgaattgg ctgggcgctg acactggccc 360
 ggectctttt ggttggcggc acgctattcc aattggtaag aatccttgca aaaatccttg 420
 ggggtggtgt atcagtcctc atcggatgga tatgaacc 458

<210> 5643
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-A1
 <400> 5643

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 gaccgcgagt tttgaacgct gtaagtacac atcgtgagca tggaggacga cacaaccccc 180
 gcggccgccc cggctctccg gcgcacgcac gcacgcacgc tcttgaagaa gaagaagaag 240
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 tgaagagacg gacgacgacg aattccgagc cgaccatccc accggcatgt agtaatgtaa 360
 tcccttcttc gtccccagtt ctccaccgcc tccatgatca accgttaaac tccaagccc 420
 tacaactact actactacta ctactactac tatca 455

<210> 5644
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-A10
 <400> 5644

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 ttgtcttgct tggagtgctt acccttggtt tccctactga agaagggtcca actctccagg 180
 tcttaattctc ttgtgcggca aatatctatt tcctttatca gcggcttaaa agtggatgga 240
 aatcattctt ttatgggttc ggctccttct ttgcttcttg gtttcttgcc acattcttga 300
 tggtatcggg aattccgcct atactgcctg gtccaagaaa cttggaagtg agcacggcat 360

gtgttgctta cgcattcctt tttgtatcat caaccttcct gaaattacca aagtttggtt 420
tt 422

<210> 5645
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-A2

<400> 5645

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ttcaattcct tattccggag cctcatcaaa attctcggtt tcaattgttt catcttctct 180
tcccgaatt ccaagctctc tcaattatat catcacaag atccatccaa gtcactacaa 240
ggattcacct tgtgctttca acttctcttt ctttttggtt gatcattctt tcattaccgg 300
agttcttcat gaagggttcta catgatggtt tcatcaagga ttaatttgt tctcgaagtg 360
ttcatcaaga ttcttttcag aggagttcaa gcattcttca tcttgctatc cggagtgcaa 420
tttcttctac agtatcatcg gagg 444

<210> 5646
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-A4

<400> 5646

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gagatatctt attactgagt ttgatcactt atgcatatctt atatggagta gatgtttgtg 120
acaatagaaa caatgtcata tgatgacccc tctgtgtgctt atactatata ttattttaag 180
caacatagta tatatgtaca ttggctcgag attacaaata tgtaatgata cttattttat 240
gtttattttt accctctgt atctaaaagg aagtataaag aaaggtctta tatttttaaa 300
aaaaaaaaa caaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaagaaaa 360
aaaaaaaaa gcggccgctc taaaggatcc aag 393

<210> 5647
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A6

 <400> 5647

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 aggtgtagac ggattaggag gtctaggtgc tactgttgtg gattctttag aactgcaat 180
 aataatgggt gctgacgata ttgtgtctga agcatcaaaa tggattgaag acaacctaata 240
 gaaaaagatc agcgagaaag ggcagggttaa cttatttgaa accactatcc gtgtcttggg 300
 agggcttctt agtgcgtatc acttgagtgg tggagaccaa gcaggaggag gtgattctgg 360
 gatagcagta acacctaaca agactaatcc agatcgtctt ctggcaatct caaaggattt 420
 agcagacaga ttattg 436

<210> 5648
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A7

 <400> 5648

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 aatcagtagc aattacgtct cgatgaattg gatagactag aaggaaggcg acttgaagct 180
 ttgcaaaatc ttgaggcata ccaagctagg atgtcgcgag cattcgacaa acgagtcaaa 240
 agaaggtcgt tcaacaagg agatctagta cttgcggtca tccgtcctat gaatatcagc 300
 cgacggatga aaggaaaatt tgaacaaaaa tgggaagggtc ccttcgtcat aaaagagggt 360
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<210> 5649
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B11

<400> 5649

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ttccttcaac caacgagctt caaactgggt gtatcctctc ggttgctgca ggttacctcc 180
gacagcccct taagtatcca ggaaaacagt tttgtggtaa gatttttgtt ttctgcgggt 240
acaacctttg catttggaac tacaccatga aactctccat tacaacaac cgtatccagt 300
cgttcccggt gcctcatcct tctccatgta aactgatctc cggtaaacc cctatcttca 360
actcacagtc aatcagagca tcacagaaat cttgcatcat gtgcatcgga tgtggagctc 420
gtccct 426

<210> 5650
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B4

<400> 5650

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ttttgtggcg cgccgcggtc tcgctgtgag cgagtgtgta cgggctgttc cgtggtgtgt 180
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gatgcgttgt ttgtccgttt tatctctcta tatattgtcc gttgtttgtc cgttcggcat 360
cccagctggt gcgtcccagc cgagagattt ggcacgcgga gaggaggaag atccgcgatg 420
gacatgggga tgcacga 437

<210> 5651
<211> 378

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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<400> 5651

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 aacaagtttg ttttacgtat gccatgtact caaaaaagtt cccacagaa aaaagttcca 180
 aaatcccggg ttgcctttt ctgacaggca attgagcatc cttcactgaa gttgtgtgtg 240
 tgctcaatca gtcttcagcc gtgggacttc actgaacctg gttcacagag ctgttcattg 300
 gaagactgcc aacgtcgtgt gttcgggtcc tgggtgtgct gcttctaccg aatacatcca 360
 cgacatgaat ttgttcac 378

<210> 5652
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-C10

<400> 5652

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 atagttacca gaacggtatt tgctacaatt gcttccttct taagctgac aggtgtttgt 180
 ttttctccag ggagatgtga taacaagttt cgacggtgct tcggtaggat gtgaaggaac 240
 agtaccattt cgggtccactg agcggattgc tttccgtac ctcaacagtc aaaagtaagt 300
 gcttcctcac aagtaccatc attttcttaa tcatcttgaa gtgcttttcc taaccttttt 360
 aatttattta tgttctgttc tagggcagaa cattttttgt caccagtttc taatgggtccg 420
 gaaat 425

<210> 5653
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-C3

<400> 5653

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gagctctact cactcgtcac cgttgccgac gtgcctgctg agggtttgaa ggggctggga 180
accaaggtcg tcgatgacac tgagtagact cttttcttta tctacatcgt tagaatgagc 240
tgttatttgg aattgcacca gcatgctttt tgtatccccg agaagttttg gagtatggaa 300
tatctggagc tatctatttt ccttcatcta aatcttgatg attgggtttg tccttcatac 360
tgtgctcggt attggcgtca atacacgatg tgc 393

<210> 5654

<211> 440

<212> DNA

<213> Triticum aestivum

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<400> 5654

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taaggagacc ttcttctcct ggtatcgtga agacttggtc ccctaatagga aaaagagttt 180
caccgccaca taatgcactc agcatttcac caaaccgaaa aggagggcgg aagctgatac 240
tgaaatcgat cccctccttt ccatcactgg ttggggacac gagcgggtgga tctgcaatat 300
gcagctccga cagcacaaca gctcttgctt taggtccatc gtaaaagtgc ggctgggcag 360
ccgattatcc gcgaccggag tacgacttgt agtccgataa tgggtacctcg catatgaact 420
ctgcggcaag gctcaagta 440

<210> 5655

<211> 285

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-C7

<400> 5655

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 agtgagcgcc tccgtgaagg aggataacca aggggaagaa tctgaccttc tctcgcttcg 180
 aggaatgaag aggactgcct ctgaagatcc ggaaaccaat gtttccaaac acgagaagaa 240
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<210> 5656
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-C9
 <400> 5656

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 attgatctga ctggcaatgt tttcttttca taaaactttt gatctattca taacatcatg 180
 gcagcataaa gaacatcaaa aataataaaa catagtaagt aataacaatt acattgagca 240
 tttcaatgga aaataaaatt gttgccaatt tagtaaggaa tattaatgcc catgacaacg 300
 cctgggaaaa aatctagttc ctatgaacaa agatagaact tggggtagca ttcgagtaaa 360
 ttgatctaatt tgacaatatt ttcttatgga aaaagtttgg ttttattcat agcatcattc 420
 tgataatcta aagcacatta aaa 443

<210> 5657
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-D11
 <400> 5657

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 gagtaaacctc aaagattggg ccgcgatcat gttggcaatc catgacgcgg acatcagaca 180
 agaattcttt cgcacttagt cggattttgc agaaatcatc tatcaagatg tccttcgtac 240

ctcggggcag ttctacctca gaaatcacgc gtcgaacagt gacatcgaca caatgctaca 300
tatgccggct gacaatgacc gttagttcat gactcccatg atctgagggg acctcatcca 360
cgcatccggg cccttgagtc c 381

<210> 5658
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-D2
<400> 5658

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aacagccacc atacctacct attatggaat ttccatagcc attccaagat atattgccat 180
gcaactttcc atcattccat tcatcatgac acattcatta ttgtcatatt gcttagcatg 240
atcatgtagt tgacatagta tttgtggcaa agccaccggt cataattctt tcatacatgt 300
cactcttggg ccattgcata tcccgggtaca ccgccggagg cattcatata gagtcatctt 360
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t 421

<210> 5659
<211> 440
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 5659

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ccgtggcggt ccccggtgtc ctgaacctca ccggcggtgac cgtgtcgggc ttcttctcgc 180
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tcggcctgat gaacatcggc ggcacatcg cctcgggcgt cgccatggac cgctacggcc 300
ggaagctgct cttcgcgacg tcgggcgcgc tcatgttcac ctgccagggtg gcaatggcga 360

gcatcgcggg gacgcacctg nggcacggga gcaagatgcc caaggggtac gcngtggcgg 420
tgctggtgct gacgtgcgtc 440

<210> 5660
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D4

<400> 5660

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ccggcagatc ctgcggcggg agtaccggcc atgcctgttg atggccatgg cgtgggggggt 120
gttcctgaga ggcacgcacg tgacgcgtgt cggccttctt ctcaccgata ctcttccgga 180
ccataagggtt cggtagccac tccgccctga cgggcacat catcctccgc ctgatccaac 240
atccgaggta gcaactctc cggcgtctcc 270

<210> 5661
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D6

<400> 5661

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ctattgctac ttccatcgcc ctgcactgat ctgcaaatgc agtcaacat tcattttatt 180
gaactagtat atatattgaa aaagagacga catcaciaag agtgtgctaa caagaatgga 240
aatcaatac actagtctgt cagtgagtga ttgtgtgatg gcctgtgctc acttatgtac 300
cagccgttgt catttgatcg gagtaactat atcattgtgg gacacttgca acggtaggaa 360
cgtgtgttac tatttttggg accccctgtg aacatttgaa caaaaagagc aaatgtttc 419

<210> 5662
<211> 146
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-D7

<400> 5662

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gctacagcga tcgtcgatcg tctcagggcat caccatcccc attgcgacag cgaacagggc 120
acaaccatag gcgcgggagc actaat 146

<210> 5663
<211> 438
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-E1

<400> 5663

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cttgtctttg cgaatgagct ttccaccatt gtcttccttc ttctcatagg agaaatccac 120
cataatgtgg ctcacattgc cacaattata gcatgtactc acacgttgct tgcccttgga 180
gccacttgag ttgttcttgg agaagttggg ccttgagttt ctcttgttgc cccaaaattg 240
ccttcataca agagccatgt gtccttggtg agcatatctt gtgtcttcgg ggcaactctc 300
ttcctcctcc tctcctctct cttctctctc ttcttctctt tcttctctct ccaggatagc 360
cttggccttc aaagctaggt tgggtgagga tttttcgacc gttggacatg agctagagcg 420
ttgtcngcgg tcttgttc 438

<210> 5664
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E10

<400> 5664

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tgcggcgggt gacggacggg cggggcggcta gaggcgggag ccgccattgt tgtaattaa 180

aagattagta gccaaagtga atactactag gatcatccat gatattgctt ttttttcctt 240
 tccttttcctt cctgttaatt actccatggt tttcccctag taattataag acttgattca 300
 ttcttgatct gagcttgctc atggcaattg gtccctccatg tttgtagtat gcttgtaccc 360
 atccctctcc tctctgcaca cttttttctt gttctctgaa gaagaagaag aagaagaaga 420
 agaa 424

<210> 5665
 <211> 106
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E11

<400> 5665

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 agcgagcagc aatgggggtc gtctccgtcg tcgtggaggg tccgct 106

<210> 5666
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-030-Q1-E1-E2

<400> 5666

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 attatcgagg attatgggtg agggggggcac cgcacacggc taagagaacg atcacgaata 180
 tcaacttggt tgtctagagg tgccccctgc ccccgatat aaaggagcaa gggggacgcc 240
 ggccggccct tgtggggcga ccaaggagga gaagtcctcc tcttggtagg agtaggactc 300
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<210> 5667
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E3

<400> 5667

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cgcctccatt gtatgtatat ttattctgtc cgagttgctg ttgttgcgta aaactgtggc 240
agcaatgtga gcagattgac atgtttgcgc tgctgacctg agtggctgcg atgcacgttt 300
catcatcagc actggaaatg ctgttgtttc gcagaaagtt caagtttggtg tgctggtttg 360
tataaatttg gtcatttttc taattgggac tcgtttggaa gatatgtttt atgttttttg 420
caccggtttc acatgaaaaa 440

<210> 5668

<211> 443

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-030-Q1-E1-E4

<400> 5668

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gcgatatgaa gcgttggtg aaggcttggg cgaacgataa gtttcccggt gaagtttcct 300
agcgagcttc ctaacgaatt ttttctgcag ttctgagcg accactaagg tcaagacgag 360
cacgaggaaa caagtgccca gtgaagaaga agctaccccg aacgcgcaaa gctaagttac 420
ctccacacan aataacgaca cag 443

<210> 5669

<211> 236

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E6

<400> 5669

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tgtcaccatg tgaactatac atggaacgaa gtatctctat gagacatatc atacagatta 180
tcgctgcctt ccaatgccac cttttgcttc tgccacccat cacatatcac tgaccc 236

<210> 5670

<211> 173

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E7

<400> 5670

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aaaggatcat gaataccacg attccccac aagttgggat cacacttcga tct 173

<210> 5671

<211> 254

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E8

<400> 5671

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaaaaaga 180
ataaaaaaaaa aaaaaaaaaa taaaagaaaa ttcatacatc ctatagaatg taacctaaat 240
tcaattcaat ggaa 254

<210> 5672

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F10

<400> 5672

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ctcgctacat tccaatatatt gctcttttct cccactatt tattctacaa ggagctggtg 180
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ttagtccgaa ttaccttaca gtatcatcaa aagtccgtga ctgtttcgct tttcttcac 300
acgggtcaag gcttcttggt tgggtggtcta ttgatgaagg gagcaaggaa gagcaagctc 360
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<210> 5673

<211> 232

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F11

<400> 5673

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ttgtccatt ctgacttcag tgggcgctag attaattagc cgctctccat gattgaaact 180
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<210> 5674

<211> 265

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F2

<400> 5674

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ggatgcaatg agagttcagc catcgtaaat cttgacttgt aacttctagt ccatcgaaat 240
cgctatcaaa gcttcatgac tggga 265

<210> 5675
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F5

<400> 5675

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aagcttgtgt aatcctacat ttttctcctt gggttcatgt tctcggcaga atgatcagga  180
aagctgtgca cgttgtgggt catttacaaa gacagtgaga tggacatttg ttttttgttt  240
agctcatgca ttgcttgc atcttttttg gtgattgatc tttatctgtg gtttcgatgc  300
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cgttgcacca ggagaacgaa atcacatgcc cctaaccxaa taagaatcaa tcttagaaat  420
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<210> 5676
 <211> 287
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F6

<400> 5676

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gccagctgaa agagatgggc cttactgccg taggaccccg gagaaaattg atacaagcta  180
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gttcgtttgt tacatgtcct tgttgctagt cagttcaatc actgcag                                287
  
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<210> 5677
 <211> 203
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F8

<400> 5677

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gagggcatgg ggctctcgga gttattcgtg taacttgata tgcacttctt cctctctcat 180
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<210> 5678

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G1

<400> 5678

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agtatcgcg aacttttcggc gttaccacaa acccatcata taccttcctc aaaacagcca 240
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catcatcatc atatacatga cttgagcatt cattgtcata ttgctttgca tgatcgtaag 360
atagctagca tgatgttttc atggcttgct ctttttttta tgtcattgct acgctagatc 420
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<210> 5679

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G2

<400> 5679

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ttctaggaga aatcggggcg ctccctgacg tattcgtgga gcttgagatc aacttcttcc 180
ttctccgaag gctgctgggt gtcagaacaa agggtagaga gaaggcaggt aaggtctcca 240

agctcaccaa gggggagatc ctgatgetta acatcggatc catgtccacc ggcgcccgtg 300
 tggtcgccgt gaagaatgat ctcgccaagc tccagctcac cgcgcccgtc tgcacaagca 360
 aaggcgagaa ggtcgcgttg agccgccg 388

<210> 5680
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G5
 <400> 5680

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 ttcctgctga gttttgtggt gtgaagtttt caagttttgg gtaaagattt gatggactac 240
 ggaataagga gtggcaaaag cataagcttg gggattacca tggcatccca agatattcaa 300
 gaatagccaa aagcctaagc ttggggatgc cccgggaagg catccctctt ttcgtcttca 360
 ttcattggta actttacttg gagctatatt tttattcgcc acatgatatg tgttctgctt 420
 ggagcgtcgt gtatgataat agtat 445

<210> 5681
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G6
 <400> 5681

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 gtaccgtgca acttttgccg gtgcattaaa cccaccatat actgttcctc aaaacagcca 180
 ccatagctac ctattatggc atttccatag ccattccgag atatattgcc atgaaacttc 240
 caccgttccg tttattatga aatgcaccat cattgtcata tggctttgca tgatcatgta 300
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attgcacatc ccgatacacc gctgaaggta ttcatataaa gtcatatc 408

<210> 5682
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G7
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 ttgaaagctg aagcactaac cacaacatca acatccaacc tttttgacat ttgcaatccc 180
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 gctatttagt actttctatg tcgtgggcta ccagaggctc cctagaggct gcaaattttg 300
 tcgctgagta gaagcaaggg aacggacgga ggggtgtccc agtttctcct gaggctatat 360
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 actgt 425

<210> 5683
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G8
 <400> 5683

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 gagtgcgca atggggggag ctctgggca gagtcttctt caccttctgg gtgctagctc 180
 acctgtatgc gttcgccaag ggcctcatcg ggcaccgctg ccgctctaga gcgatgtagc 240
 ttacatacgc gtgcatgcta cgtcagacct cttaaagatt gtcactcaat ttgaactcat 300
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 cttggactaa a 371

<210> 5684
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-G9

 <400> 5684

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 cacaaaagct aaaaggcagg ttctatagga tggccattcg acccgtaatg ctgtatggcg 180
 ctgaatgttg gccgactaaa aggcaacatt gttcataagt tagggatagc ggagatgcgc 240
 atgttgaggt ggatgtgtga ccacacagga aaggatcagg tccagaatga tgatatacgt 300
 gacagagttt gggtagcact gattgaagag aggcttgtct aacatcgtct gagatggttt 360
 tgggcatatt cagcgcagac cccaaaagct 390

<210> 5685
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-H1

 <400> 5685

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 aagaccccc tggcaagcgc catgccgggg acgactacaa cgccatggca agacccttgc 120
 cgggcccccg gcaagaccct tgccgaaggc atcagcgggg ccactgccag gcccgcgcca 180
 gccaaaggctc cgccaccgtt cgcatacagc taccagccca accagctggg caggcacctg 240
 cgtggcaaca tgcggcttac aagccaactc accaagcacc tacgtggtgg catgcagatc 300
 ttcgtgaagg ccctgccatc gcgccacctc agcagcctgc ctgcctacat ggcactgcac 360
 acatcgtctg cctgggcgcg tgtcgaagcg aggcggagcg gcgacggatg ggacgggcct 420
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<210> 5686
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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<400> 5686

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ccgacccagc cgcgcgggat gcgatattaa ccatgtacac aaaatgttac ctccccaaaa 180
aaatgtacac aaaatgttaa aattgaccat gtacacaaaa aatgttgatt ctcaaaaaaa 240
aaaagttaag aatgtattat aaaaatatat tacatatata ccaaattta caatgtgtat 300
aaaaaaagta aacataaaaa actaagtttt aaaaatcatt tatttcagaa atatttagca 360
tttgataaaa aatgattcta atgtatatga aaagtgttga atactctctc catccggaat 420
tgcnttgtcc agaaatggat aata 444

<210> 5687
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H7

<400> 5687

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aggacacaat tcataacacg gtgaggaagt ttaaagaagg atcatttggt gccctcaact 180
gtgtcatact gcggtaggtg tagtctacgc tgtgtagcaa cagggtttgg tagtctgtac 240
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gcaggcatga cggtgcaggc acgatgtcgt gcctgtgacg aaacgggtgtc atggaggtcc 360
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tgtatcgaaa actcgaactc ct 442

<210> 5688
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H8

<400> 5688

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accatcagca aggtcactag cctctagagc ccattgggat gaagactttg ggaccggagt 180
ctcctggggc aaaggctcgg cggcccgagc ctcgtcggtc cgaggctcgt ggaccggagt 240
ccgagacagg tccatgtcag acgggtccac ctcagacgga gcagtcctgt ggtcgggaga 300
atcatctggg ggtggcggca aggaagggtgc accagccttc ctacctctcc cgctgccatg 360
tccaccteta gcacctctet tcgtcttccc tcgaccttcc ctagccgaac aagaaacgcc 420
caacggtggt gtctgcatac tgtct 445

<210> 5689

<211> 353

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H9

<400> 5689

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cgctccttcc tcgtcaagct cggcgccgag aacctcaagg gcgccaagtc cgaggagctc 180
ctcgtcgcct cacacaagtc ggtctccatt gtgtatacca tgatcgggga cgtctgcctg 240
tacattggtg gcaaggatta atatgatgag cttgctttgt tggaggatgat cttcgctggt 300
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<210> 5690

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A1

<400> 5690

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gtccttggcc ccgcgcagtc gccctacgaa ggtggagtct tcaagcttga acttttctta 120
 cccgaggaat atccgatggc tgctcctaaa gttaggtttc tcacaaaaat ataccatccc 180
 aacattgaca agcttggttag aatatgcctc gacatcctaa aggacaagtg gagtccagct 240
 cttcagatac gcactgttct tcttagcatt caggcactgc tgagcgcccc aaaccagat 300
 gatccccctc cagaaaacgt cgcaaaacac tggaaatcca atgaagctga agctgttgag 360
 acagcgaagg aatggactcg tatg 384

<210> 5691
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A12

<400> 5691

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 aaatagcaat tctgggctgg gcctccggtt aatcggttag tcccaaaagt aatataaaag 180
 tggaaaataa agcctaatat agtccaaaac agtaggtaaa gtagcatgga gcaatcaaaa 240
 attatagata cgttggagac gtatcaggca tccccaagct taattcctgc tcgtcctcga 300
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 taaatcttct taattgtgat atgaatattt 390

<210> 5692
 <211> 174
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A5

<400> 5692

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 gatactcagg ttcatgtcct thtagaccat ggacgtatcg acaccgtgt tttt 174

<210> 5693

<211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-B5

 <400> 5693

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ttctattttac ttaattcttt ttgcatatga ttaatagata aattcctcgc gtccagaaat  180
ttatttttaga atttttggag ttccataagt attataaacc tacatattac tacagactgt  240
tctgtttttg acagatactg tttttcgtgt gttgtttgct tattttgatg aatctatcac  300
tagtaacaga gtttataaat catagagaag ttggaataca gtaggtttta caccaatata  360
aataaagaat gagttcatta cag                                           383
  
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<210> 5694
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-B6

 <400> 5694

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aatatgggtg taattccaac aaagaagagc ttggttaa atgtgagaaact ttcagtgagc  180
gccttcgcca ggcggagact tgcaacaatt atggtgaagc tcaagtttgc tgaacacctt  240
aaagaggctg tcacctacat tgaacagggc catgtgcgtg taggccaga gacggtcacc  300
gatcctgcct tccttgtagc caggaacatg gaggacttca tcacctgggt ggattcctca  360
aagatcaaga agaagatcat ggagtataat ggtgcattgg atgattatga tgccatga   418
  
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<210> 5695
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-B8

<400> 5695

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agatgacact gttgttgagg tacttgacgt gccagtagt gatgatgagg aggatggcat 180
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tgagccagag agtagtggaa gggttgctat ggcggtgggg ggtgttgagg aagagattga 300
tgacatgag caaggtgaag gtgatgatga ggatgagaat ggtgagatcg gagaggaaga 360
tgaggaaaga ttgaggata gtanggttta tgaggaggac aacgatgatg acgatgctga 420
tgatgaggat gaaga 435

<210> 5696

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C10

<400> 5696

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ttaacgtctg attcaggggtt ggcaccgcca tgtagaccat cgatcgtttt agatctctac 180
ttattgattg attctttctt caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaataa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaac aataaaaaaa aaaaaaaaaa aaaaaaaat gggcccccca 360
aaaggttcca ggcctaa 377

<210> 5697

<211> 418

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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<400> 5697

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cgcgccgctc gcgctcgggg tcgcttccgc tgctcgatct gctcccgaag ctgcgtctgg 180
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cgcaaacgcg tcgtggaaca gtagatatag tggtcggggc gtgcggtttg cgggccgcgg 360
caaattttgt tacgggccgg acgagtatgt gggctctgtt ctgancgaaa aattgggt 418

<210> 5698
<211> 447
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-C8
<400> 5698

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aaagtgaacc cgacgcacta cggggagcca aggttttaca ccaaggtgtt taaggaatgc 180
cactcctatg accaagatgg gaattccttt gagctttctc tggtaacttc caagtgcatt 240
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aagtgcacag aagacaaagg ctttcagaga ttcttggaaca atgtgcagta caaatccact 360
ggaatcctgc gttatgagcg cgtgtttggg gagggttatg tcagcaccgg tggattcgag 420
aacacaanaa gattttgtgg acaacct 447

<210> 5699
<211> 350
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-D10
<400> 5699

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gacgtgtgtt atatattggt gagtgcacatg atatgatatg atacaatgca gctcaggata 180
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<210> 5700
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D11
 <400> 5700

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 ccgccgccga ggcgggcgcg tgaagcctag ctgcaaacca ttgttttatt ggccgcattggt 180
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<210> 5701
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D12
 <400> 5701

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 agttcaaaca catctttgga tgatcctggt atcttggtgc ttatttattg tttaaatac 240
 acagttcaat ctttgtgttc tctgtaatat gggagaaggc gtggaacaga ggaagcgtgc 300
 cacgtgaatg gatccagaac cgtgtactgc taaaaacgtt gaagggtactc tcttctcttc 360

tccccctttc tttgttttgt ggcgacttga tggcttggtt cggttcatg

409

<210> 5702

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-E8

<400> 5702

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gtctgcatgg atatgtacgc atattgtgta tcccatgtgt cgtgtcagac aactgatca 180
taagcggcac gttgggtcag atacttcgat ctgccgttcc ctttgagtgt gacaggatct 240
tcctgtgtcc tcgagacttg catagagatg catatgcagt aacgtgacgt gcaatcaccg 300
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<210> 5703

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-F1

<400> 5703

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taacgccaac ataaataaag aatgagttca ttacagtacc ttatgtggtg gttttgcttt 180
ctttcactaa cggagcttat gagatttctt gttgagtttt gtgttggtgaa gtttacaagc 240
tttgggtaaa gatttgatgg actatggaat aaggagtggc aaaagtctaa gcttggggat 300
gcccattggc cccaagata ttcaagaata gccaaaagcc taagcttggg gatgccccca 360
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tcgccacatg 430

<210> 5704

<211> 446

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5704

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 ggagcctcca attgagttgt ggagattgcc ccaacctcgt ttgtaaagggt tcggtcgccg 180
 cctccaaggg caccaatagt ggaatcacgg catctcgcat tgtgtgaggg cgtgaggaga 240
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 cgtacttcct ctcaaaggga aggaacttcg gcaacacatc ctcatctcca acgcctccac 360
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<210> 5705
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-F9
 <400> 5705

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 tcatcgccag gacgaccggg cttcatgtaa gaccgtatca taattgccac accagtgaat 180
 gatcatcgtc taactcccat tacacttctg tgatcacctc tcctctacta gcaccgcagc 240
 agcagcagca agggatggag taccgaacgc agcacgaagg cagcgtctac tcggacctca 300
 tggagacgtt cttggagtaa caacgcaacg catgcatgca tgcgtcgatc gatcatcctc 360
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<210> 5706
 <211> 394
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<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-031-Q1-E1-G5

<400> 5706

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agcacggcga gggccacaag gacgacgacg accaccacaa caccatcatc gcatccatt  120
agcattctac cattttcctc ggagagaagt agccagaaac agcagcgcca tggccggcat  180
catgcacaag atcgaggaga agctccacat ggggtggcggc agcgacgagc acaagaagga  240
cgaggagcac aagaaggcgg aggagcacia gaagaaggac ggggagcaca agaaggacgg  300
cgagcacaag gagggcatga tggagaagat caaggacaag atcagcggcg acggccacgg  360
cgacggcaag aaggacggcg agcacangga gaag                               394
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<210> 5707

<211> 412

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-031-Q1-E1-G9

<400> 5707

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tgtccaatcg gttgtcatcc ccagaccoga cggagctcct cgagtttgcc ggcgggttat  120
ccaagaccgt catcgacgtg cactactatg tgttgttcaa tagcatgttt gatactttca  180
ccgtgcagca gaatatcgat ttcataaga ccaactactc aagcgtcttt agcactgtca  240
cgaagcagaa cggtcctctc acctttgtag gtgaatgggt ggctgagtgg caggtgcccc  300
atgcaacgaa ggaagagctc caaatgttag caaatgcaca aatggatgtg tatgggaagg  360
caacgtttgg atgggcttat tggactctca agaatgtaaa caaccactgg ag           412
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<210> 5708

<211> 373

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-031-Q1-E1-H10

<400> 5708

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 tagaatgata cagaggagcc ggaggcaacc gcataggcct ttttggaggt cttggcctcg 120
 tctatgaaac ctctttatgc ggggtgcgaca atatctcagc tggatgccat ctcgcaactg 180
 attgcagtca aggctgagta cggctgtatc cacatatgct tcgaagcatt cctgggagta 240
 tgggctaaca gcctccctga gggtcatgaa ctgccgataa gcatgtacga tacaacgata 300
 atcatgaagg cactctctat ggattatgag aacatatatg tttgcccga taattgtctt 360
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<210> 5709
 <211> 311
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H11
 <400> 5709

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 gactggggca ccaacgacac taacatcgca caaactgtgc aagtggata tttcctcgca 180
 tccaagtatg ccaaaagccc aagcctcctc gcaattgaac caatgaacga accgttggcg 240
 cccgggggtat ccctgtgaga gaccataaac gtattatagc gacaggtata cagtctctc 300
 gagacacaca c 311

<210> 5710
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-H2
 <400> 5710

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 ggggtgacat ggcaataggt angcatggta aacaaaggca ggcagggcta acataacgaa 180

agagcgagta ctagcaagca aagatagaag tgatatcgaa ggtatgatca tcttgccctgc 240
aaggttctca gagttgtcga aggctggatc ctcgtagcg tactcaacag gttcctcgtt 300
cacgtactcg tctcccggt ctacccaaaa taagaacaca agcaaggaac cacaataaat 360
cacggtgcaa tgcacaggca tcatgatgca aaacatgtca tgatatgcga gaggtgatat 420
gc 422

<210> 5711
<211> 458
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-A1
<400> 5711

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ttatgatact cttactattc tgaatgggaa gaattttgct tgtagatcat gaaaagaatg 180
ctttaggtgc tgggttatatt attgaattca ttcgatgagc tacttaaaat tattatgagt 240
gaggaatata tgcttgtagg aattgcaata atatcaagtt ccttccccac gtgcttaaaa 300
tcttgaagct atgcttggtt taccttccca tgctagttga ttattgttcc cctaagttgt 360
ttgctcacia aatccctatt cataggaagt gggttaggt taaatgtgct agtcatatgc 420
ttcatgatgc tcccgttatg tttcaattct taaccttt 458

<210> 5712
<211> 434
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-A6
<400> 5712

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tgtttgacgc tcttcgtgct actgatgacc tggtgatgag gagggcatat tttaggaagc 180

agcagcttga caacaaaaca acatcaccta actctaactg aagaggacag ccggtgtgat 240
 ttgctcttac attgatatcg catgcgtatg aataatggtc caatggaatt gggagcggag 300
 taagaagctc atgttgcctt tatgcatgta ataatcatgc ctgcctgcat ggcccgctag 360
 ctgttggtcc aatgcctggc tgcctgcctg aactggcgtc aatttccagt ttgtttttgt 420
 aatatataat aact 434

<210> 5713
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-A8
 <400> 5713

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 aagcggcgtc ctccaacgat aaggacatct aggagatcaa cgtggaggat gaccgtagtg 120
 tcgccagcgc cgctgcctcc gtgggcgtag tcaccaagga ggatgacagt atcatctcgg 180
 ccgatgctcc ggcgatagag aaggaccaga tcgacacgtt cgtgcctgca ccggcagtca 240
 aggccaacga ggatgccggt gccaccttcc tggctgcccc ggtggccggt gatgatgcca 300
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 ctccgttggt ccgggacatt 380

<210> 5714
 <211> 199
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B10
 <400> 5714

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 aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaaaaaaa aaaaaaaagc 120
 ggccgctcaa aaggatccaa gctaacgtac gcgtgaatgc aacgtcaaag cccttcaaaa 180
 gggtcaccaa aattcaatt 199

<210> 5715

<211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C10

<400> 5715

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gggtcgacgc ggcgggtcat tgggtgcgtc ggatatggat tccctttcga ctgcctccac 60
ccccgtgcc acgaacgatg ctgaggtggg atcccaggaa gggatccacc atgaggagga 120
ggccccggag gtgtcacagg acaaactccc ggactttgca ctggactcag ccccgagacc 180
cacagtggct ccggagtccg gtgggcgacc ctttcgtaag aagggcaaga ccgtgacgcc 240
ggctgcctcc atccaaccgg aggtgccgga taatttgcta gaggcgtca acggtgcctc 300
catcaaagag gaacaccgca ctgttatgag tgcggtgatt cagaaggttc agctcgccaa 360
gagcaagctg accgaagcct gcagcagcct tctaac 396
  
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<210> 5716
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C8

<400> 5716

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tacacacatt gctcagggtt tcctaatttg gtaggatttt tggagttaca gaagtattcg 180
agagttacaa attactacag actattctgt ttttgacata ttctgttttc tatgtgttgt 240
ttgcttactt tgatgaatcc gtgagtagta tcggagggta tgaaccatag agaagttgga 300
atacagtaga tattacagca atatagaaga tcaatgagtt cacaacagta ccaaccgtgg 360
tgatttattt tctt 374
  
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<210> 5717
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-D3

<400> 5717

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tattttctgat gtgctttata ctaccttgat agttgatgaa tagatctgaa gttttttcaa 120
aaaaaaatta aaataaaatc ttaagatggt gtgccgaccc atctcgaagg tgctcatagg 180
gtaaaaaaaaa atatattatc atactactcc ctctgttctt aaatatttgt ctttctaaag 240
atttcaacaa atgattattc cctcogttcc gaaataacttg tctttctagg catttcaa 300
gggcacaaca tacggatgta tgtagacatt tagagtatag attcactcat tttgctttgt 360
atgtagtcac ttgttgaaat ctctagaaag acanatatct gggaacggag ggagtacatg 420
taaagcaaaa tgagtgaatg tataactctaa aa 452

<210> 5718

<211> 328

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-D5

<400> 5718

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tcagtctcac aaagacgttc ataacagtga gtacatatat gcgtacatgt tctgaggaaa 120
aaactcacag ctccgaataa aacttgacca agagttgtaa atactccaag ttgctagctg 180
tgatgcatga acgctacgtg gtagtcgac caatgacctg gttcagcggg actctgatcg 240
gctatgacat ccgcggccgg cccgtcttga cagccatcac tccacgccat cgatggtgtc 300
atgcacatcc gatacaaagg agtgatac 328

<210> 5719

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-D6

<400> 5719

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ggtgacggct tcacgactt cagcgagttc atctccttct gcaacgcaa cccggggctc 120
 atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgatccag 180
 gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
 ccgatccagc ctacgcttca cctgaggccg gccctaattt tgtttgatca atttttttgc 300
 tactagtagt aactagtgat gatcactggt gcaccattta tttattttat atcgtcacaa 360
 ctttccagtg tttcttttct ttctctacct ttttgtcgat cgtcggctcc agctcgatcg 420
 aacgatccat gctgctaatt gtntgtg 447

<210> 5720
 <211> 352
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D7
 <400> 5720

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 acatgtgccg gtggttcaat gggctaggac agccgatcta gcatgtcttc acaatagtct 120
 cattctttca tgctaatacgt atcacacgct tagggagcgc ataagctaac tgggctcaag 180
 tatctcccaa tcagcataat taacgcccac cgcccttttg aaattaggac ttaactactc 240
 atgccatatg catgcatttt gatagacagt gtttattgat ctctctctca ctactctct 300
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<210> 5721
 <211> 335
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D8
 <400> 5721

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 agacctcgat gatgacagcc ctctcgggc ggagcttcgg aacaggccct aagacgggat 120
 ctctgggata cagaacgttg cagtgggtga attacatttg tggctccata tctgttcggt 180
 tgggggtacg taggtatata tcggaggaag aagtatgtcc gtggagctct gagggggcca 240

cgatgcaagg gggagcgccc gccatcctct tgaccgcctc ttttgttccc tgtcgtaagg 300
tctacgtctc ctgcatgacg ttcagtgaga acatc 335

<210> 5722
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E10

<400> 5722

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agtcctgcgt ccacgagtct ggggactccg acacgaaagt gaacccgacg cactaccggg 120
agccaaggtt ttacaccacg gtgtc 145

<210> 5723
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E11

<400> 5723

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gctgcatccc ggtctgggaa gtgatagtc tggccgtggc gagcatcgcg ggcttcctgg 120
ccgggtttct tcttcgatg gcagtcgaca agatgagcaa caaggccaat ttatctgggt 180
aagtttatct ggttacacta gtagtgaata gtgctctaga attatggttg tgggtgtttag 240
ctcagcatat atatatatat attgctgaaa gcatgtcgat cgatcgctg tcgtggcatg 300
gcacgtactc ttctgccgga gttaagtacg tgtgagttcc tgtgtttggt tcatgtgcta 360
cagcttaaatt tgcgtagcat gatttagtgt 390

<210> 5724
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E5

<400> 5724

cctatagtga gtcgtattaa gtactaccca gattggcaga cgacacgagt gaaatggttg 60
cttta 65

<210> 5725
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E7

<400> 5725

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catgattgca ttattatgca gacgagtatg aggaagttct ctgtaggaat tttatgtgga 120
tgaagtgttc gactaatcaa aagagtctca atatgagaac aaggaagaaa agcatgaaga 180
tcaagattgg gatgcacacg gcaaccaagg tgaatatgca gaggtactca agcatcaaga 240
catggagatg aagaagaagg cgtcgactca tacgacgacg aataacaata ag 292

<210> 5726
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E8

<400> 5726

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ttacgctctc caggctgtca cggcacacat ggttggtaaa atacaaacat ttgcgatttg 180
caccataatc cgagacggtt cacagacagg aaacgtttgc aagcatgcac acagttgccg 240
tttgcaaagc atgtgctatg tcagacaata tcacaaacgg tgcgggcaaa ctaaagcttt 300
gtgttagttg ccttatcgta cacgattcgc aaccatgaac tgtttctgat gaagtatgca 360
tcgtaaacgt tgcaccacag aatagcgtgt 390

<210> 5727
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F10

<400> 5727

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agatgtcatc gtacttgtag tatggccaac ttcatgattt tcatacatgt cgctcttgat 180
tcattgcatt gcccggtgaa tcgcccgatg cattcatata tagtcatatc ttgttctagc 240
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<210> 5728

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F4

<400> 5728

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tctttttctg acagtcaata attagatgca agggcctctt gctaggttta gttagactta 180
atgcaagtgt ctcttacttt tatttcaagg ttggtgctat ttttcgaagc aaacttccaa 240
gttctgcata ctaaatagtc tgatcaagta actaaagtgt cctaaatacg tagcaaagtg 300
ggccagttcg cttctgtgac gatacaacac atcctggata ctagtaaata tcattagtgc 360
cttctctttg tccagtttgt ggacttatag aatttgag 398

<210> 5729

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F7

<400> 5729

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cagaaccaca aaaaagttat gggtgattcc ttgtggaagc ttaatgttgc tgacatagaa 120
gccaccatat cacatgtctg ccagatggtg cttcaggacc ccttggccag gaaggatgac 180

ctgcgtcttc gtgccaaagg actgaaaact ttagggaaaa ttttccaggg tggttaagctc 240
 aacagtgggtg agggggaagg gtcgcacatg aagaatatag ataacatgga tgacaatgcc 300
 ggtagctccc ctgattcgtc accaaaacgg gagccatcat tcaatcccat tcctaaccct 360
 cctcttacct agagtccata tgtggaggct cccagtttg gcggaaccta ttgttcgttc 420
 aac 423

<210> 5730
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-F8
 <400> 5730

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 atgggtgcttc aggagccctt ggccaagaag gatgacctgc gtcttcatgc cataggactg 180
 aaaacttttag ggaaaatttt ccagggtggt aagctcaaca gtgggtgaggg ggaagggctc 240
 cacatgaaga atatagataa catggctgac aatgccggta gctccctga gtcgtcacca 300
 gtacgggagc catcattcaa tccattcct aaccctcctc ttactcagag tccatatgtg 360
 gaggtcctcc agtttggcgg aacct 385

<210> 5731
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-G1
 <400> 5731

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 ggaggaattc aaacatctgt gtgttctcca cttagccat tgccaatcat tggaagaaca 180
 tcatcttgag aatatagtga gggtgcccc gctaaggtag ctgaacctca aaaatacaga 240
 aataaggaag ctcccagaac aaatcgggcg tttaggttgc cttaggttgt tggacctaa 300

acacacttgt gtagaggaat tgcctgcac tattgttaat ctcaaaaaat tgacgcatct 360
tcttgttgac tatggtgtta aatttcctga tggaattgan gagatgcaag cattggagac 420
attggaagag gtcaggttct ccaaaacaac a 451

<210> 5732
<211> 445
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-G2
<400> 5732

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ccaacgaaca taacgagcat aacaacattc atcacactag tgagatcgct ggggttctcc 180
gcgggcgccga tctgtgggac gaagaagaaa gagctagaca gaaacaggaa gacctgaaac 240
attctcgctg tgctcaatca cgccctccaa ttgcctatgc ttctgtaacc ccattcccct 300
tcttgccctg gcctgtgtac gtctctccag aagctcatga gttttgaaaa tcttgtcnca 360
gcagccaaag ctgcaatggt ttcattctcc ttcctttttg tctgttgta gaaaattctt 420
ttccgctctt gacaggaaat ttac 445

<210> 5733
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-G7
<400> 5733

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tcctggacgt tgggtggaat actaccagag tggacaatgg caaagcgtac catgcataca 180
caacggaaaa gaagccccgag cctgcgcatt gaccaagggt gtttacttgt agcacaaatc 240
atgcaaacca gctcgggtgaa tttttgagct gatgcgtgct gttatgtctg ttttgctgat 300

gcacctagtt cctttgcaaa gctgtagtaa cttgttttgc tcgagggcaa tacaacagac 360
 ctggaataaa tatcttgttt tattttgctt catcattggt tatgataata atcacatgtg 420
 acacaatatt gttaccccaa ccc 443

<210> 5734
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-G9
 <400> 5734

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 ttgctgcgga tgggtatcgga agcggagcgc tcttgatggc aatgaagtac catgtcagta 180
 tatcaaatag tcctttgtgg gattacatgc caatggtttt ctacatctga tcatctccga 240
 aatttttgca ccgtacttca gccatgttat gccgcgtttc atcttttgct tgtaaagata 300
 gtacatcaac cctttatgtg ggaaaagccg atagtgggta gatgctgtgt agaaaatagg 360
 catacaggga acctaacaac gacattttcc gcatcacggt ctattccttg cag 413

<210> 5735
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-H5
 <400> 5735

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 tgtacataat acttattcag atctggacca atttcgaaat ttgcttatga ggacttaccc 180
 gatttgttac atgttggttc cggcctcatt taaacttgct ttgatgtgtt gctctagtat 240
 gtatcatatc ttgccatgag tagcgtaaaa tagcctttgt catgcatcat gcttggttgt 300
 gcatcttgtc atgtttatgt gttgtgtgtt taccatgtgg tttgctcctt tccggttggt 360
 cttcttctcg atagttcctg tttcgttgcg atcgtgagga ttcgttctac ta 412

<210> 5736
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-033-Q1-E1-A8

 <400> 5736

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 atataattcc tcccaaatta ctaaaaccca caaattaatc actatataaa ccattgcaag 180
 agctaactcta gcaatgagag atgaaaagac aaagttgcta acctttgtga acatttgaat 240
 ggatgggggc cttcaaactc tgacaaaatt tgggcagaat gtgtgatgag ctcgaggaag 300
 aaggaagaa cagagcacgg gtggacgaag ggtttatata ggacggcctt tagtaccggt 360
 tcgacgcacg aaccggtact aaaggtgctg gaggggcccc agactgacaa catcctgcc 420
 ccactctctt tagta 435

<210> 5737
 <211> 456
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-033-Q1-E1-B12

 <400> 5737

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 gagttgcaag gcacttccgc gaagtgttct ctgaattggt gcaaggtggc cacggatact 180
 tggttatgat gaagaaaaag gatggtgatg ctggcgatga tgacatggat gaggacgcgc 240
 ctcgatgaagc agatcctgaa gggaggatag agaagtatat tgggtggaag gtcaaggttt 300
 ccttcactgg caaggagaa actcagtcca tgaagcagtt gtctggagga cagaagacag 360
 tgggtggcatt aacactgatc ttcgctatcc aacgatgtga cccagctccg ttctacctgt 420
 ttgatgagat tgatgctgct ctggatcctc agtaca 456

<210> 5738

<211> 442
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-033-Q1-E1-B5

 <400> 5738

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ggagcgggct gttgagtatt tatattctgg tattcctgag ccgatggaga ttctgcacc 180
accaccaagt gcccagccag ctgatcctgc cctggcttcg caagcagctc aacctgcagt 240
tgctcttcc ggtcctaata ctagccctt ggacctcttc cctcaagccc tgccaaatgc 300
ttcagcaaat gctgctggtg aaggaaatct ggatgttttg cgtaacaatg cacaattccg 360
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gggaaagcaa aacctcaga tt 442
  
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<210> 5739
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-033-Q1-E1-B8

 <400> 5739

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aaattattag aatactctat gtgcttctact tatatctttt gagttatata gtttttgctc 180
tagtgcttca cttatatctt ttagaacaca tcggtggatt tgttttatag aaaccattgt 240
tctctcatgc ttcacttaga ttattttgag agtctacaa acagtatggt aatttgcttt 300
aattatttga ggcattcaag attaaataaa taaatttttc ttatgagtgt gttgaatact 360
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<210> 5740
 <211> 442

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C12
 <400> 5740

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 gcaagcgctg cgccaagtac tatgaggctg gtgcccgtt cgccaagtgg cgtgcagtcc 180
 tcaagatcgg cgccaccgag ccatcgcagc tctccatcga ccagaacgct caggggtctgg 240
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 ttgttgatgg acctcatgac attgaccgct gtgcttacgt caccgagatc gtccttgctg 360
 cctgctataa ggccctcaac gaccagcatg tctcctcga gggcactctc ctgaagccca 420
 acatggtcac ccctggttct ga 442

<210> 5741
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C7
 <400> 5741

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 gttcaccggt actgtaccgg gaccaccgga aggggtcccgg ggggtccaccg ggtggggcca 180
 cccatctcga agggccccgt gggctgaagt gggaggggaa ccagcccata gtgggctggt 240
 gcacccccct ggtccccccc tctgcgccta gggttgggaa ccctagggga gggggcgctt 300
 ccaattgcct tggggggcaa gtctcccccc ttggccggcg cccccctag gagatcccat 360
 ctctagggc cggcgcccc ctgggggtccc tatataaaga ggggggttg a 411

<210> 5742
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-D11

<400> 5742

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atctcgggta ggggggtccc aactgtgctg ctaggatcga tggttacaag agacagggga 120
cacgatgttt acccagggtc gggccctctc tatggaggta ataccctact tcctgcttga 180
ttgatcttga tgaatatgag tattacaaga gttgatctac cacgagatcg taatggctaa 240
accctagaag cctagcctgt atgactatgg taatgtgtat atcctttccg gactacaccc 300
cccagtttat ataaacaccg ggaggatcta gggttacata gggtcgggta cataggaagg 360
aatcttcata gttgatcgct aagcttgctt tccacgcaa ggagagtccc atccggacac 420
gggtacagtc tt 432

<210> 5743

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-E4

<400> 5743

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cggcttcacg gacttcagcg agttcatctc cttctgcaac gccaaaccgg ggctcatgaa 120
ggacgtcgcc aaggtcttct gaatcagttc atttcacctc agccgtccga tccaggagcc 180
gatccatcta cgtacggctt cgtatatcaa tttcatgcaa ctacctactc cgggtcccgat 240
ccagcctcag cttcacctga ggccggccct aattttgttt gatcaatttt tttgtacta 300
gtagtaacta gtgatgatca ctgttgacc atttatttat tttatatcgt cgaaaaaaaa 360
aaagtcaaac gaaagaaaaa aagcggggcg tctagaggat tcaagcttac 410

<210> 5744

<211> 187

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F4

<400> 5744

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acatatgact gttcacaaaa taaagttgta caaaactaaa aaaacattcg ggtgctcgac 120
atgatccaat cttatctatg cttgcatgca acattagctc gcttccacag tgtcacacat 180
gataatt 187

<210> 5745
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-F6
<400> 5745

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tgttctcgat atagattgca atcatacttg tcctattatt cttggtaggc cttcccttag 120
aacgattggt gcaattattg atactaaaga aggaaatatt agattccaat ttccattaag 180
gaagggcatg gaacactttc ctaggaagaa attaaattac cttatgaatc tattatgaga 240
gccacttatg gattgcatac caaagatgat aatacctaga tctactcttg tttttatgcc 300
tagctagggg cgtaaacga tagcgcttgt tgggaggcag cccaatttta tttttgcttc 360
ttgttttttg tttccctttt agtaataaat aaatcatcta tcctctgtta tgattgtgtt 420
tcttatgttt ta 432

<210> 5746
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-G10
<400> 5746

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acaaggagtc cacgatccac ctgcgcgtgc gcctcgtcgg cggtggcaag ggcgggttct 180
acccaccag gatggagcct aacctgcgca tgctcgcgt caagtacagg cagcacaggc 240
ttgtgtgccg caagtgtat gcacgcctgc ccctcaggtc tgccaactgc cgcaagaaga 300
agtgcggcca cagcaatgac atcaggccca aggagaagct gcgccccac tgaagcgttg 360

gaaacataac taggtgacat gcgatagctg gattaactgg gaattcaaag ttcgggttcga 420
gtcttaattt cagttaaatg 440

<210> 5747
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G12

<400> 5747

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agccagagtg caagggtgaa tttgatatgg aggggaaagt gtgtggtggt acgtcagaaa 180
gtgaaactgc taagtgaag aagggtgtct gtgatccttc ttacttggcc aacaaggtaa 240
ggaagattgg aaaagttgca cgagcaattg ctattatgag ccaccaatt ccaaagcaa 300
atgattccca ctcgattcag attatatttac cacaaaagca acttgggcgc aagtcagaca 360
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ttgtgtctgc tgaagcaga 439

<210> 5748
<211> 196
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-033-Q1-E1-H7

<400> 5748

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attcgaattc acntnnggcc gtcagtttta canacgtctg ctgactgagg aaaaannccc 180
tggcgttttt acccaa 196

<210> 5749
<211> 440
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-034-Q1-E1-A10

<400> 5749

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ccgatgcggc ctgctcgctg cgcgacggcg gagatcgatg gcagtcccgt gcacacgatg 120
ctggatggag gttcgtcgag cagatccggg tgaaaacctt gctctgggct agttgccaaag 180
gccggcaatg gaaacgtctt tttgtgtcgc ccccttcttg aaggcatcga catggagaag 240
ctccaaacct ctatccgcta cctccaggga aaaccctaca ccagtcgatt ggatgatgtc 300
ggcgtctctg tgtcgtcctc cctgggggca tcattcttgg aggtgtgcat tggctcgagg 360
gaccagtgga cggtttcaat ggtgaagcag catttcatgt gacacatcaa cgacgtggag 420
tcttggcggc atggtgctgc 440

<210> 5750

<211> 421

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-034-Q1-E1-A4

<400> 5750

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ccattgatga gtgtaaggaa agaaccgcta gattgctgct taaaaaagat agctttataa 180
aagcgtgttc ttctagtttc catgaaaata atgattagga tcttaaagtt attgatgcgt 240
ctcttattag atctatgttt tgcaatatga attttgatga ttatgggact gatgatgaat 300
caactttgcc tataaggcgt cccaagaatt cggagtcttt agattttgat gcgaaatttg 360
gtaaaagtga gattggagaa gtcacaactt taaataatat tgaaccact agctcggaat 420
t 421

<210> 5751

<211> 431

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-034-Q1-E1-A6

<400> 5751

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 atatagtttt tgctctagtg cttcacttat atctttttaga gcatggtggt ggttttgttt 180
 tatagaaact attgttctct catgcttcgc ttatattatt ttgagagtct tttagaacaa 240
 catggcaata ataaaaactt tcatacaagt gcattgaata ctatgagaag tttgatactt 300
 gataattgtt ttgagatatg gagatggtaa tatcagagtc atgctagtgt agtagttgtg 360
 aatttgagaa atacttgtgt taaagtttgt gattcccgtg gcatgcacgt atggtgaacc 420
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<210> 5752

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A7

<400> 5752

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 gtgatcagcc aaccagcagc ttgctggatc cttctctctg gatgcctaaa atcagtatgt 120
 ccatgtaatg taaacatccc tttccctttc cctttcttc atgtagcttc ggtctactcc 180
 ttagtagtcc tggtaaaagc ttgtgctctg tagttgcttc agctactggt accctatgat 240
 gtgtgtggtg taatatatta tggatcattg tggcattcct ttttcaatca atctgcctgt 300
 tgccgcgagt ctgaagatga tcgctgtgtt tgttctctca aatcctgacg aacttgattg 360
 ctgaaaaaaa aaaaataaaa aaaaaaaaaa aagcggccgc tctaaaggat ccaagct 417

<210> 5753

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A9

<400> 5753

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 aacgacaaat aaaactcagc gaggtat tttt ttgggttttt gataatatag atctgaaaat 120
 aaaagatgca aataaagaaa aaggcaaata gcaatataga tctgcaaata tatgatggga 180
 aaatagaccc gggagccgta gatttcacta gtggcttctc tcaagaaata gcatatgatg 240
 ggtaaacata ttactgttgg gcaattgata aaacatcgag taattatgcc gatatccaga 300
 caatgatcat tatataggca tcatgttcaa gattagtaga ctgactcctg cctgcatcta 360
 ctactattac tccacacatc gaccgctatc cagcatgcat ctagtgtatt aagttcatgg 420
 aaaacataat aatgcaataa gaatgatgac a 451

<210> 5754
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-B12
 <400> 5754

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 tcgactcacc agtcgaagtg atgactggct caccaagtga aatgatgaat gtaaatctat 180
 cctgcactgc aagt ttaact gtctatcctg cactgcatct ttaactggcc agttgtatga 240
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 atctacttgt gatgagaatt taagttctgt gatggcatgt gagatgtaag agcactcata 360
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<210> 5755
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-B2
 <400> 5755

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atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgttccag 180
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tactagtagt aactagtgat gatcactgtt gcatcattta tttatttatt ttatatatca 360
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<210> 5756
<211> 425
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-B5

<400> 5756
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cgggggtcat gaaggacgtc gccaaagtct tctgaatcag ttcatttcac ctacgccgtc 180
cgatccagga gccgatccat ctacgtacgg ctctgtatat caatttcatg caactaccta 240
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ttttttgcta ctagtagtaa ctagtgatga tcactgttgc accatttatt tattttatat 360
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ctcga 425

<210> 5757
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-B6

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actacatgcy tgaacatgtg ccaagtcaag ccacttgaat cattgaaagg aggataccac 180
cctatcatat cacatcacia ccatttttaat agcatgttgg cacgcaagat aaaccattat 240

aagctcctag ctaattaagc atggcatgag caactataat ctctaattgt cattgtaaat 300
atgttttcat ccgtaataag ttgaatcagg aacaatgaac taatcatttt tacaaaaaca 360
agataggtcg agttcatacc agcttctctc atcttaatca tttcatcata tatcgtc 417

<210> 5758
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-C10
<400> 5758

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cctaggtcgg ttagtTTTTT tttaaattat tccgctcgga agaaaaataa aaagaaatac 180
taaacggact ccaaaaattc cgaaataaat tttcacgggc ttctaaaatc aagccgcaca 240
aggtgaacat ttatttggga cctaaatgca atttcgaaaa acgcacattt ttcctaaatt 300
caaataaaac accaaaaaaa tcttatttga tttttattat taaatcctca atatttcttt 360
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aaaataaata aaatgaaatg attctattct caaaa 455

<210> 5759
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-C5
<400> 5759

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ttcgatcatg tcaaggaccg gccttgggat cggaatgttt aacacgggcc tgttcatagg 180
tctacaggac aagctcgctg tgtgccggcc tggacttacg gcgttgggca tggcgatgag 240
gttcgctcgt gtcccggcag ccaccgcggt cggagcgcta cttttgggac tgcgtggtga 300
ccttttgcgt gttgccatct tacaggctgc actgcctcag tctgtcggag catttatctt 360

cgcgctagag tatgacctgc acgctgatgt actcagtacc gtggtaatag tcggcacgct 420
ggcttcgctg c 431

<210> 5760
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C6

<400> 5760

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tttgattgaa aagtatgatg ctactcttta caagtatgaa aattttgcca tagttaaata 180
ttgctatgat aattatgctt ctaatgccta tggttaaact tatatcaagg tctactccgc 240
tgtccaagaa gagactaata ttttgcagga gtctatgcaa gaagaaattg atgagactgt 300
gagctcattg gatgaaaaag atgatgagga gagcaaagaa cagaaggagg aagagcggat 360
tagctacccg tgcccaactt ctaatgagag taactcttca actcatacat tgtttaataa 420
cccttcgtgc ttatcgaagg attaatgcca 450

<210> 5761
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C7

<400> 5761

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accacgggct tcaaccccca tctaccgag taccgacaag agtaatggct gtgtgatatt 180
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acgtagacgt actctactag ctgggatcct cgagtgaagt agtttgctgc ctgtaaatta 300
acaagtgtgt gtgtggctac ctgtgtactc ccatgtgggt gtagcacgta ctgtagtag 360
ctgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagcggccg c 401

<210> 5762
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C8

<400> 5762

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 aagctgagct cgttccagca ggagatcgtg cagctggcgg cggtgctgaa cggcgaccac 120
 cagctaagca gcctgcagga gaggatcagg gagaggatga acgtgagga aggcacctcc 180
 tacatgagga ggcgcgtgcg gcgcttcttc gaggccggca tgcggccaa gaggatgggc 240
 ctgcgcgacg acgagcagat cgtcaagatg aggcctctcc ttaccaccag aatgacctcc 300
 tcccctgcag atcaagatga tagtccgtag agagcaacga tgcatacata cataggatga 360
 agattgatgt tggaattacc aaaattctta gtactacaca tacatata 408

<210> 5763
 <211> 202
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-D1

<400> 5763

cgggtcgttt caatttgaca aataaaaaaa aaaaaaaac atcaaaataa agaaaaaaca 60
 caaaaaaaa gaaaaaaat aaaaaatggg aaataagaaa aaaataaaaa aaaaaaaa 120
 ggggccagct caaaaggatc caatcttact taccctgaa agcaatgtca tagcccttca 180
 atagggtcac caaaattcaa tt 202

<210> 5764
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-D10

<400> 5764

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tttcgtctta agtgagttaa ccacatcaag tgttggtgcc tggacacaaa agagagagaa 120
agagagagag agagagagag agagagagag agagagagag gccaacagaa acagagtggg 180
gctctgatgg atacaacgct cgtggtataa aaaggtgcct ggtccaatta aaagagtgca 240
tccttatgat tgtgtaaggt ttggccaatg gaaaatgaat gttttggtgt catcatgatg 300
atacagccat acaagaacac catgaggggt gttacatgca cgtttccaat tacaattgca 360
tggttcattat tatgttttac tctaaagtgt gctgaaccac ataaagcatt agcgccctaga 420
tacacacaca agagatagat agatagagag ag 452

<210> 5765
<211> 428
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-034-Q1-E1-D11
<400> 5765

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ttgattctgc tgaaaaacag agactttgcg ctacagagaa aatattcaat aaatcacaga 120
aacgtgcttt tgcattgatt atttttgctg ctgatcaata aacaaatfff ccagtacttt 180
atattttggt agaattttta gagttccata agtttgcggt agttacagat tgctacagac 240
tgttctgttt ttgacagatt ctgtttttcg tgtgttgttt gcttatttca atgcatctat 300
ggccaataaa ttagtttata aaccataagg aagttggaat acggtaggtt taacaccact 360
ataaataaat aatgagttca ttacagtacc ttaaagtagt cctttgtttt ctttcactaa 420
cggagctc 428

<210> 5766
<211> 425
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-D2
<400> 5766

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agaaggcatc ccctctttcg tctacttcta tcggttaactt tacttggagc aatattttta 120
 tttaccacat gatatgtgtt ttgcttggag cgtcttgat gatttgagtc tttgcttggt 180
 agtttaccac aatcatcctt tctgtacaca ctttttgaga gagccataca tgatttggaa 240
 tttttagaat actctatgtg ctctgcttat atcttttgag ttatataatt ttgctctagt 300
 gcttcactta tatcttttag agcacggtgg tggatttggt ttataggaac tagtgatctc 360
 tgatgcatca cttagattat ttgaaagcc ttaatagcat gggaattttc ttaaaatcct 420
 aaata 425

<210> 5767
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-D5
 <400> 5767

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 catcgagtcc gactacttcg tggcgtacgg cgtcgtgttc aagaacgacg cgccactggc 120
 caagccgggg gccaaagggcg ggcaggcggg ggcgctgcgt acgttcggca ccaagcaggc 180
 cttctacaac tgcaccatcg acggcgggca ggacacgctg tacgaccaca aggggctgca 240
 ctacttcaag gactgcgtga tcaaagggag cgtggacttc atcttcgggt ttgggaggtc 300
 cttgtacgag aactgccgca tcgtgtccat cgtgaaggag atcgccgttc tcacggcgca 360
 gcagcggacc aagaccatcg agggcgctat cgagagcggg ttctcattca agaactgcag 420
 catcatgagc caaggcnggg ggg 443

<210> 5768
 <211> 347
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D6
 <400> 5768

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 ccgccgcctc tggtcgcctc tggctgcact gcctagacgc ccgatgggaa ctcttcttct 120

ctgtcacgtc gctcttctag gtctgtattc ttctctgttt ctctgttaac atctacgtga 180
 atagattgat ggatagatgc atgtattgat gaacaaatgg tactgctaata gcattgatgt 240
 agttacggtc ttttaatagc aaactagccc ccctatgata ctgtgtatta tactttactg 300
 ctatgggtggg tacacttttc ctgtccgtaa gatcgggttaa ttacgat 347

<210> 5769
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D8
 <400> 5769

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 aacagtggaa agttgcatgg caatatatct cggaatggct atggaaatgc cataataggt 120
 aggtatggtg actgtcttga ggaaggtaaa taatgggttc aataccagcg aaagttgcac 180
 ggtaataaga gaggcttgca aaatggaagg gtgagtgtgc gtatatccat ggactcacat 240
 tagtcataaa gaactcatat acttattgca aaagtctact tagcccttga agcaaagtac 300
 tacgatgcat gccccgagag ggatatatct gtaggaaaag accatcgctc gtccccgact 360
 gccactcata aggaagacaa tcaaaagagc acctcatgga acaaatttgt cacacaactt 420
 tta 423

<210> 5770
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-E5
 <400> 5770

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 gactagatcg agcgacttgg gaggacagaa tcaagcgtgg ctacgaacac tggctcctca 120
 tctcttgttt ttctccaaca tttcatagta ctcggttgat tgatatggca tccgtgaata 180
 agtcttgaac aagctacacc tgaacagggg tttttataag ttcggcatca tggaattcct 240
 tttgttctc atgcgaacct catttcatga aaggttcagt ctatctctctt tcttctcttt 300

ttgtaagtgg aaacgaaaca tggaaataga acgatcacat gattctgcag tgtatactct 360
 cgtgtgataa aactaaaaga gatggtaaga tggttttaga atgacttggt caatacttat 420
 cacacattta gctaac 436

<210> 5771
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-E6
 <400> 5771

gtaccggtcc agaattcccg ggtcgacggg tgaggcccg acatccaagc tgggtgaagg 60
 ctcaacacca aagtgaagca ataatgctgc atcgctcata gctactggaa gtaaattata 120
 tcgataattt aagcatcagt gctagtataa gatgtctact tatgcacggg atgatgccac 180
 tatatgatgg ccagtgttga agtacgaggc ccctatatga tgccctactga tgaagtatga 240
 aaataggcta atgtgtatct atctgtagcc tcctgatcta agggagcacc gtatgtgtaa 300
 tctctgaatg agtagaagac tattatagcg tcaactttga aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aagaaaaaaaa aaaagga 387

<210> 5772
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F10
 <400> 5772

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 aattgacgat gggctggaaa ctgtcaaata tagaattggc ctttgatggg ccaattctat 120
 gtaacttgta tgggccatgc ttgtaaatgg gacctgactca agtaggccgc taatgggcag 180
 gcccgcttat tttgatagtc ccggcctttt aacctgaatg ggccactgtt gggctgagac 240
 atgtgtcaac gtatcatagg cgtgttccgt ccattcgctg gatgacaact gtccgaacgc 300
 cgagccgaca catggatctg ccggacaatg agaattttac acatggaaaa tccccattgg 360
 tctacgctgt taacgggtta tcggatccaa accggaaccc gatagcttaa tggcgaccag 420

ttacggtgga tg

432

<210> 5773
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F3

<400> 5773

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taccggtctc atgtagtttt tgctttgttt ggtatgttcg ttgtcgggtcc ctcaaaaaa 120
aacaatagtg agtgtacatg gatttgaacc atgggtgcga ggactcatga accaactcat 180
ccaaccaaag attctgcaga aagagaggga gcttaaaccg tctcgccata tacgtggcat 240
tcatttacgt tttggaaaca tccatcatgt acgattcggt ttttcaaacc tcctccctat 300
atgtatgttg tggaccacag ttgcgggcgt gttgcgcaa gggttggagc tccagcgga 360
ggagcgggag atggggctac t 381

<210> 5774
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F6

<400> 5774

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cggggagcac aagaaggacg gcgagcaca ggagggcatg atggagaaga tcaaggacaa 120
gatcagcggc gacggccacg gcgacggcaa gaaggacggc gaccacaagg agaagaagga 180
caagaagaag aagaaggaca agaagcacgg cgagggccac aaggacgacg acggccacgg 240
cagcagcagc agcgacagcg acagcgactg agccagctcc ggccgcgctc cggcagcagc 300
gtgcagtgta ggcgagatcg atgaacgctt gggagaagtg tggcatacat atatgttgca 360
gggtttggag cgtgtggtag catatgtatg taatgcgtga catgt 405

<210> 5775
<211> 420

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F7
 <400> 5775

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 acattgaata ctatgagaag ttgatactt gatgattggt ttgagatatg gagatgggtga 120
 tattagagtc atgctagttg agtagttgtg aatttgagaa atacttgtgt taaagttttt 180
 gattcccgta gcatccacgt atggtgaacc gttatgtgat gaagtcggag catgatttat 240
 ttattaattg tcttccttat gagtggcggg cggggatgag cgatgggtatt ttcctaccaa 300
 tctaccccc taggagcatg catgtagtac ttgtttcga taaataatag atttttgcaa 360
 taagtatgtg agttctttat gactaatgtt gagtccatgg attatacaca ctctcacct 420

<210> 5776
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-F9
 <400> 5776

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 agtgcctgc gatggtgagg ttactaagag ctgcagacaa tggatggtac attgctgagc 180
 atcgggcaag ccacaatcat tcgctatctc ttacatgcgg ggaaaagggt cactggccat 240
 cccacaaaca cacagatgtg tacacaaagg atctcgtgaa acagcttagg gaaaacaatc 300
 tgaacctcaa caaggtgtat agcatagttg ggagcttctt cggattaaca cagagcgtgc 360
 cttttacaaa aaggtcattg cgcaatctgt gcgggagaat aagcagagac caagttgatg 420
 atgatg 426

<210> 5777
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-034-Q1-E1-G5

<400> 5777

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gacgacgatg atgagaggaa gccacggcac aagaagcacg acgatgatga cgacgacgat 120
ggcgagagga agccgcggta caagaaacgt gacgacgacg atgatgatga ggatgacagg 180
aagccgcgtt acaagaagcg tgacgacgac gacgacgatg atagaaagcc acgttacaag 240
aagcacgacg acgatgacga cgacgacgat gagaggaagc agcgtcgcgg gaacaaccgc 300
cgccgccatg attacgatga ctgatcaagg catcctgaca tgagtttagc tgacgctaaa 360
taagtatatg cgcggcggct ttgcttcgat gaatcaccag ttcgtanttt tttt 414

<210> 5778
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G6

<400> 5778

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gggtgaatgt tagagctaatt cttgatattt gtattagcat gtttgagttt tgcattagat 120
caaatcaagt gtggtgttcg cccgacgaag gcttcagggtg agcgcgccaa ggaggtgaga 180
tgccaggatg ccgtgtgagg cggcaagcac ggcgagatgc cgatggtgct gcgtgagaag 240
cggcaagacg tatcaaaggc tggagccgtg atggactgca tcaaattggg tcgggtgaac 300
cggccgggtcg ttctgtttgt tggactagct gttcatgcgt gagttcgttt actcctagct 360
gagagtatcg ttgctaataa ttgatgcatg c 391

<210> 5779
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G7

<400> 5779

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 agttaatttg attctactga aaaacagaaa ctttgcacgc acgaaattag ttttgttata 240
 tcacataaac gtgcttttgc gttgattctt tttgctgctg atcaatagac aaattgtcca 300
 ggacttacta ttttggtagg agtttttagag ttccaaaagt ttgcattagt tacagattgc 360
 tacagactgt tctgtttttg acggattctg tttttcgtgt gttgtttgct tattttgatg 420
 catctatggc tagtattaag tggatatgaac catagag 457

<210> 5780
 <211> 339
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-G9
 <400> 5780

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 cctcagtaat tcaggccatt gtctcccatg taagaacgag atgcttacag taatgcccta 180
 cagaaagtca gtgggcacat aatcttgggtg ctcacgtgtt ggataaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaacaaa aaaaaaaaaa aataaaaaaa 300
 aaaaaaaaaa ataacacaaa aggttaaaaa ttaaattaa 339

<210> 5781
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-H5
 <400> 5781

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 tttagtgcac acctctcgac atctctgcag tccaccggat tcaccatctc taacacacgc 180
 atccgcttac cttcactcaa cagccatcaa gcaaggcggt taatatcata atctccacat 240

cccagccaat ctacctggtc gcacatttat cagaccatca tatcacattc tatgagacat 300
tctatgagac caatcctcaa taccgacgat tctatgccta attctataat catatcagat 360
cacacgccgt tcaagggttag tcttgtaatc agttgaatgc agtctccaag ac 412

<210> 5782
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H6

<400> 5782

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gaacaaccag ggcacgttcc taaggaatgc aaccagaacc agaatcaa at ggcccttcca 120
gcaactggcc gtggaagcag tgggtggcagc ggcgtcgccg gtgcggggca gtggcggtag 180
cggcggtgcg gggttcgaga cagggcggtt aggggttttat cccaggacgg gccggcggtt 240
tataaagggt gagcctggag gagtccgggc ctagcacgac ccgtagggtc gttcagttct 300
tttgaaatag ttacgtcag aaaaaaaaaa gactactaaa cggacttcaa aaatcctgaa 360
ataaattttc cccggcttcc aaaatcaagc cgcattaggat gaacatttaa ttggggccca 420
aatgcaattt tgaaaaacat gcaattttcc caaattccaa ttaaa 465

<210> 5783
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H7

<400> 5783

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tccatgtatt tttagaagtt catccaatcg tcattttgat cagcgatcac gtcatactgc 120
atatcctcta tcgaggtaga tgcttggatg gacacaatca gttgatctcc gcaccttagc 180
agattcaagc aacaagtgtg tattgccatc aaattgactt tggagagatg gcatgctcgt 240
ttaggccacc cttccttctt ccaggaccaa acacgttctt agtagaaata aactctctgt 300
tgttggggag cataattctg agacgattta tgactcttgc cagatagcac aacaccatca 360

gttgcccttac cctgtttcaa ctaccaattc ggtgaagcca ttgtaactca taatttc 417

<210> 5784
 <211> 310
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-A1
 <400> 5784

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 ctactcatcg ccccgacgag catgccgagg agaccaggag gcacacatcc aagggagtgg 180
 gtgtgggcta gggttcatct tctgatattg ccaatcgtgt ctaccgcccg gtgaatgcca 240
 atcagacgtg cgcgacaaac cttacttggg cctgcagcca gacattttga ctgcagcacc 300
 gatttcacgc 310

<210> 5785
 <211> 299
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-A10
 <400> 5785

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 gcggactgag aaccgggtac tgaattgtca tgatttcaaa tttcggaagg gccttagctg 180
 tcaaattgac ttgtctacaa ttccgcttcg cctgaagtca tctattaccg tccggaggga 240
 gtactatcca atcacgtgat cacctaatat cattctttct ctagcggcgc actcaagcc 299

<210> 5786
 <211> 171
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-A4

<400> 5786

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gcatggaaat cccccgttgc tcggtgagat tcaagcgtgt gtcgtaggga aaatacaatc 120
cgttcgcgct atctagactc tacaattgtg caggatccaa cgcttgggggt c 171

<210> 5787

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A8

<400> 5787

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gcgactcggtt cctggccacg acggtgacgg cgactcgctc ctggccgcga cggcgacgct 120
ggccggcagt cgtgacctga ccgtgacggc gaaccgctca tcctcctccg ctccgccaag 180
aactgttaag agtgatttgg aggattcaag attctgtgaa gctcttttga catttaaagc 240
tcagaactga ggttacattg tcataggttc aatatgacgc aaaatagggc taagtggaca 300
gcaaggatat agaaagggtct cgtggaggta cttacagagt acaatctatc tcattaccgt 360
ggtcaaaatg ggtggactac cgaaggatgg aatcaagttg tcaaggaact gaacagttta 420
tatccagagg caagg 435

<210> 5788

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B10

<400> 5788

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gttcgagggc atcggctacc acctcctcac ctctctctgc cacttgctcg tcattcttct 120
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ccctgaggtc attttatctg aaaccaatg cctgataata gctcatgttc tgaggaaaga 240
aatcaatgag gctttcatca ccttgcaaag tgttgcttcc ggaaaagacc ttaaaacata 300

cctcaagtca attggagtcc tctggttcat ttctataatt gggggctgct tcagcttctt 360
gactctgtct tacactatatt tctgatggc atacacgctc cccatgctct atgagaaata 420
tgaagatgaa gtcgatgttg 440

<210> 5789
<211> 115
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-B11
<400> 5789

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tccggtagga catcctcggc gtcttatgca acctccgctt cacgttcgct accgt 115

<210> 5790
<211> 463
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-B12
<400> 5790

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gctgtctggc acccttcctt actaatttct ctgcagccat gaacttaaaa ctgaatggct 120
tcaatatgtt caaaggcttc aagggtttt gcttgctggt caaacaggaa ctagcttcag 180
gagagttaat gtgttactgt aagaattctg caaacaaatg cagactatga gaaccaaggg 240
attcttccac ggacatgtac ctgtggcagc attaaagatg cgatggaagg gaagaggtca 300
tatgcattct cagaagattt tgaagataaa tcagtttgaa gacattgacc tcatgttgcg 360
aagacattca cttatgtgtt gagtgttggt tccagatttg tacgaatcaa tgaataagta 420
caagtgagga atctaactat atgtgaagct taagtgaata tac 463

<210> 5791
<211> 461
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-B2

<400> 5791

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tggccgacgac ggcgacgctg gccggcagtc gtgacctgac cgtgacggcg aaccggtcat 180
cctcctccgc tccgccaaga actgttaaga gtgatttggg ggattcaaga ttctgtgaag 240
ctcttttgac atttaaagct cagaactgaa gttacattgt cataggttca atatgacgca 300
aaataggggt aagtggacag caaggtatga gaaaggtctc gtggaggtac ttacagagta 360
caatctatct cattaccgtg gtcaaaatgg gtggactacc gaaggatgga atcaagttgt 420
caaggaactg aacaatttat atccagaggc aaggtttacc a 461

<210> 5792

<211> 213

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B4

<400> 5792

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acgcgtgtgt caaagggaga ataccactca atcgcgctat ccagaccgtt tatttgtaca 180
ggatccaacg cctggcatca gaccggccaa aac 213

<210> 5793

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B5

<400> 5793

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acagtttttc gtagttttag tcgaatctgt tcttcatacc tacagtccac gagaaagccg 180
caaaaaaac ttaggggttag ttcatcatat ccgaaccaat ctgagccttt gcataatctt 240

tttagggttt tgctttgttg aatttgcggt tgcacgctcg tgtctagttg ctggctcttag 300
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 catcatcgtc gctaccatct atcaccaccg c 391

<210> 5794
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-B7
 <400> 5794

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 tggagagggg aaacgaggag agcaagcggg gcggctggag atccccctac ggcagcgata 180
 acgttcggcg gcgacggcgg tctgtggcgc tcccccgga gatcggtttt ttctaatacg 240
 aggcgtgcgg cgagcggaag aatcgggaga aagggtgcgg cgttcctcgc ggagtcttgc 300
 ccgtgtacgg tgtctctgag gagcatggga tcgaacatgg ggcagatca atctgggctc 360
 cgctcggcct gttcgcgctg tgcgtccgtc cca 393

<210> 5795
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-B8
 <400> 5795

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 tctocaagaa aactgacaat gagtggtttt gcgacataga gtactcaacg aagcagtaca 180
 gagctccatg ggagggatgc ggcacgtgaa attttgttca ctacgagtga ctttgtatgg 240
 ccggagcatg gtctagtttg tgcacaaagc tttgtacca gcgatttagt tactaagttc 300
 agtaattcat tgaatcaaca ttgcttgga tccagggact taatgctgtg aactcgtttc 360
 ttccaaatga atcaacgtgg cttttttatt tatatgat 398

<210> 5796
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B9

<400> 5796

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 atggcaaata atgtaatgcg ggagataggg attgtgatgg gtacttggtg tgttgacttt 180
 tgcgcagacc ccccggcaac cccgcaaaaa atcctcctgg caactccgga aactgcctt 240
 gggattcccc caagaagaaa agaagattcc aaaaagttac cttagttatt cccaagtgtt 300
 ttgaaaacca aggtatcaat ccagtaggag gctacgcgcy agtccctcgt acctacacaa 360
 aaacaataac tcaatgcaac caacgtgctt aaggattgtc aatccc 406

<210> 5797
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C11

<400> 5797

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 ctccctcttt cgcttgctc ttgtatgctc gttgtcatgg ccagctcggg cttcatccct 180
 tcgtctcccg acattgaagt ccttcacttc aagcatagac aaggagaaaa tttaaaagat 240
 gcttggttta ggatgctaga atcttatcgt ggttgcaata tagaaggaga tttcaaaatt 300
 ttacttcaca atttttacgt tggggtaacc atatccata gacaacttct tgattttgct 360
 gccaaagga gttttattga aattgatcct agcttcgctt atgaaattat aagggggata 420
 gtaggagtag tccccctaca aaatgggtca accct 455

<210> 5798
 <211> 480

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-C12
 <400> 5798

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ggcgatgatg aggaaagggg cccccgaggg ggccaacccc aagaaacggc gcgacgtcat 120
gctataggag acggcggggt ggtggaggaa gccgcgggcc gatcggcgac agaacagcaa 180
gcgatcgagc gcgcgtacga ggccgctcgc aacgacgacg acgatgggct cgtgtacatt 240
tttcacagaa ggggtcgagt agcaaagtgt catatatata ccgtgggatt gggaatcgaa 300
aatgttcgta cgctgtcggg cgctcatctt cttcttctct ggttctgctg gttcccttga 360
cttgtagta tgtatacatc agttgagtaa gttggcattt tttagcctga atttgtacac 420
ggtttcaggc ttggaaatgt acaggtatgt aacttgagtg aactaacgag tgtgtttttg 480
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<210> 5799
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-C3
 <400> 5799

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caaatctttt acccaaaact tgaaaacttc acaacacaaa acttaacaaa aaatctcgtg 120
agctccgtta gcgaaagaaa acaaaacacc atttcaaggt aatgtaatga actcactatt 180
tatttatatt tgtgttaaac ctactgtatt ccaacttctc tatggtttat aaactatttt 240
actagccata gattcatgaa aataagcaaa caacacacga aaaacggaat ctgtcaaaaa 300
cagaacaatc tgtagtaatc tgtaactaac gcaaacttct ggaactccaa aaattcagcc 360
aaaataggac aacctagaaa atttgtttat tgatcagcag caattggaat anatatttta 420
tcacgttctg gttattttta acaattat 448
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<210> 5800
 <211> 455
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C4

<400> 5800

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tctggatccc caccattatc aatacctcat atatatttgc aatattcaga ttgctttatc 180
atattcttgc tcgttcttcg attgcttgca ggaatagacc ttcgtgggtca ggctgaccgt 240
gcttccggcg tcgtcagtaa cctcaggaga ttggtttagc gattgttaag gcgcaacgtc 300
atgcacgttt gtagtcggat tgtcaaagtc gtctccacca aatcgatatt tatcatctca 360
tcgaaagatc gggacaccct cgctctatc aagtgggtatc agttttcagg ttgctcggtg 420
agaattttta gttttcgtag attagattta ttttc 455

<210> 5801

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C7

<400> 5801

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aaactttaca ttccatagtgc cactggggcg ctgccaagca agaggagctg tctgctagga 120
ccccgttggg tcttctagcg atgcagttac tgcataacct agagaagaat tcatttagga 180
gagtactgcc ccgctttttc ccgctgttga ttgatctgat tcgctgcgag catagctctg 240
gagatgttca acacgcgctg tataaaatct tcaaatactc aataggcccc atgatagaag 300
tataatggca cattcctgtc ctgttaggcg cacgattttg tgtcaacatt ctgacatcct 360
gaatgagccc ttcaagatcc tggagttcaa gtgcatatta ctagtccaga tatcaggcat 420
aaagaggaaa atacattttt gcttacatcc 450

<210> 5802

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C8

<400> 5802

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aaccagttct tgaagcgcac gttccagctc gccaaagcggc ggtgatgtcg gccaaatgct 180
cgaagaatga gtctaggtgc tactatactt ttttagtccc attactgcaa caacaacagt 240
tgccggtacg tgggctgtat ctgtgccagc ccaagtgagc ggcctatgta atgcgttcag 300
gtgtgagtgt gccttgtaa atagccgttg ctaaagcgtg agggttgagg atccatgtac 360
tgccaagtgc caacttcct aaaaaaatg tactatc 397

<210> 5803

<211> 433

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-C9

<400> 5803

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caaaaatatt cgaaacgttt ataaactaca ctctgggttt aaaagataaa atacattcaa 120
acttggaat catatgaaa aaaacatgag tgagtagaac atggcattga ctctgccaca 180
aactagctat ggcaaaagct gtcagcattg atggaggaag tgcaaatgg ggacgcatat 240
gcatgtgtaa ccaagtctcg aactagatga acggctgcac catgcatggg atatcccggtg 300
catgcagtgg cggatccagg gccagggccc aggcctgggg cgcgagagaag atttccttcg 360
tgtgctatag cagtatgtgc actgtagctg tactgtagca gattgtanca gcctggggcc 420
cggggctttg ccc 433

<210> 5804

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D10

<400> 5804

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 aggaaagtca tgggtcttggg tagacacgag cttgtcctta gtccctcatc gagacgagta 120
 tgtccggtat ggcatggtga ggtttgatga gtggtgattt attccactag tggtaatat 180
 gttggaggat acttggacca cctgactcgg tcgtangccg agtcttgatc agtaccttcc 240
 ctatttgttg gtaccaccac ttgtccctgt cacagacagg gtatggttta gtaagttggt 300
 aacccttac caaagcacac atcgtacaga gaggccatgg tggaagatac cggaggcctc 360
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<210> 5807
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D5

<400> 5807

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 gggaagatgc cacaaggaga ggtccggctt tgaggagacc tggactgcca accctttgat 180
 cttcgacaac tcttacttca ctgagctcct ttgtggggag aaggaaggcc ttcttcagtt 240
 gccgaccgac aagaccctcc tgactgacct ggcttccgc ccacttggtg acaaatatgc 300
 tgcggatgag gatgctttct ttgctgacta cgctgaggca cacctcaagc tatccgaatt 360
 gggatttggc gaggctgttg acggctgctg ctgattcaag ctcggcg 407

<210> 5808
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D8

<400> 5808

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 tggagatccg caagaatttg gatgctatgg atgaaattga gaggcggagt gcggaggact 180

atgagaagtt ccgtaagaag ctaaacaata ttgagaaagc atgcaatggt gctttgatcg 240
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 ttataagaaa cccttattta actagtgggt taagaaaccc taccttcaga actctatgtg 360
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 actcgttata ag 432

<210> 5809
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-D9
 <400> 5809

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 aattctttcg catccagtcg gagtttgcgg aaatcatcca tcaagatgtc cttcgttcct 120
 cggggcagtt ctacctcaga aatcaaccgt ccaacagtga catggacaca atgctacaaa 180
 tgcaggctga caacgaccgt tatttcatga ctcccacgat agacggcggc ttcattccag 240
 ctccggtccc ttgagtcgag tcgaaagtag tgatgctgtg tctagttctg aaacatcgat 300
 tggctcatgt tgtaattaaa ctttaatgaa cttgtagtat gtctctttgg tttcgagagt 360
 cgttcaactt agatgtaatc gatgctatta atgtcttgc tttctcttcc aatcattctg 420
 ttgcatactt atatattgcc taagt 445

<210> 5810
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-E1
 <400> 5810

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 agacattcca agtaccatc acaaactcat ctccctcgca ttacattat tttccatttg 180
 cctctcggtt tctctctccc cacttcaccc ttgccgtttt attcgccctc tctttcccaa 240

tctcctcctc tcttttttgc ttgctttctt ccaacttgct tttgtttgct gttatgttgg 300
aaattgggga aattatcgtc gatacgggca ataatgataa catggaaaat tctgaggctc 360
cggctgaaga acccctatct tgcatactaa aaagtttcga atcggtagtg gtaacattat 420
tggaaggat gttattcaag atttcattac ttgta 455

<210> 5811
<211> 445
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E10
<400> 5811

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acaaggaccg cctcgaccg gcgctgctgc ggccggggcg catggacatg cacatctaca 120
tgggccactg ctgctgggag gcgttcaaga cggtggccgt aaattatcac ctgctggacg 180
accatgctct gttcccagag atacaggaac tgcttgccgc ggtggaggtg aaggtgacgc 240
cggccgaggt gtccgagatg ctgctgcgga gcgaagacgc cgacgttgcg ctacgggtgc 300
tgacggagtt cctccaggac aagagaagca aggcaagaaa agaggcaaca gaaatcaaga 360
tcggcgtagc agagaaggca atgtagcagt agtagtagta ttcagtgtca gtatcccctt 420
caacgggacc gttttattgg aggag 445

<210> 5812
<211> 465
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-E11
<400> 5812

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agcgcaggaa cggcctgctc aagaaggcct acgagctctc cgtgctgtgc gacgccgagg 180
tcgcgctcat cgtcttctcc aaccgeggca agctctacga gttctgcagc acccagagca 240

tgacgaagac actcgacaag tatcaaaaat gcagttatgc aggacctgaa actactgtgc 300
agaaccgaga aaatgagcaa ctgaaaaaca gccgcaatga gtacctgaaa ctaaaggcac 360
gggttgataa ttacagcga acacaaagga atttgcttgg tgaagatctt gattcattan 420
gcataaaaga gctcgagagc cttgagaagc aactccaatc aacct 465

<210> 5813
<211> 454
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E12
<400> 5813

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gatcagcggc gacggccacg gcgacggcaa gaaggacggc gaccacaagg agaagaagga 180
caagaagaag aagaaggacg agaagcacgg cgagggccac aaggacgacg acggccacgg 240
cagcagcagc agcgacagcg acagcgactg agccagctcc ggccgcgctc cggcagcagc 300
gtgcagtgtg ggccgggatcg atgaacgctt gggagaagtg tggcatacat atatgttgca 360
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<210> 5814
<211> 449
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E2
<400> 5814

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gacgagctcc tcgacaaggt gcgtgtcatc caggccgaca cgctgagcat gatccagggc 180
ggcttcaccg gcgggagcac cacctccgag accagctgcg aggcgggtccg gctgtcgtgc 240
gccacgcttg tggagcggct caagcccacg aaggagagca tcgagtccaa gtccggcgcc 300

cctgcgccat ggaaggcctt gattaccag gcgaccatgg cgagcgtgaa cctgtcggcg 360
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agcgagggtg aaatcgacgt gctgaccgg 449

<210> 5815
<211> 390
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E5
<400> 5815

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tttgtcgagg aagctgtgct gcaagtatct gattgggggtt tcagcttggtc agatattcaa 180
atgcagaaga aagaggatca gggagtatct gaatttatga agtctctgtt cagtcaggct 240
gaacgagagt ggggggggatt tctgggcca atccacattt ggcaggggaat ggatgaccgg 300
gtggtgcccc cgtcggtgac cgagtttgcc aggaggatgg ttccaggagc cactgtccac 360
aagcttctcg acgaaggcca cttctcatac 390

<210> 5816
<211> 452
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E6
<400> 5816

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atgaagtgtg cctggcctgt gcatccttat gagtggcggc cggggacgag cgatggtatt 120
ttcctaccat tctatcccc taggagcatg cgcgtagtac ttgatttttg atgacttcta 180
aagttttgca ataagtatat gagttctttt gactaatgtt gagtccatgg attatacaca 240
cttttacctt tccgcctttg ctagecctta cggtagcgtg catttccctt tctcaccttg 300
agagttgggt caagcttcgc cgggtgcatcc aaacccccgt gatacgatac gctctatcac 360
acataaacct ccttatatct tctcaaaac agccaacagt acctacctat ccatggcatt 420

ttccatagcc attccgagat atattgccat gc

452

<210> 5817

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-E8

<400> 5817

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caataatgct gctgcaacaa tctcatcgat cttacaaaaa actagcaaaa gggctctgtgt 120

gttacaacag cagaaaaaaaa atcataatct ccaaaggcca tagcaacatt ttgctgcaac 180

accgataaca ttttcacgaa cattctgttc aattttatta acattttaat acacaaactt 240

ttaaaaaaaa tcatgaacat ggtttgattt ttcaaacatt tgttttcaaa tttgcaaaca 300

ttttcttgat atggaagatt ttttataaaa ttataaacat ttttttaacc cacaaacatt 360

ttatgattta ttgagcattt tacttaaaaa ttctcctttt aaattatttg aagttacaaa 420

tttattaaag gagg 434

<210> 5818

<211> 462

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-E9

<400> 5818

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ttttcatcta ctttctgttt agatgtgttt ttatgtttta attagtgttt gtgccaagta 120

gaacctatag gataacctat ggtgatagtt aatttgattc tgctgaaaaa cagaaacttt 180

ggcgacgaa attagttttt ttaaatcaca tatacctgat tttgtgttga ttctttttgc 240

tgctgatcaa tagacaaagt ttccaggact tcctattttg gtaggatttt tagagttcca 300

gaagtttgcg ttagttacag attgctacag actaatctgt ttttgacaga ttctgttttt 360

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agaacttggg atacagtagg tttagcacca aaattaatta ag 462

<210> 5819
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F2

<400> 5819

aattccaggg tcgacgggcg atgttgctgt tgaccatata tggacgcgtt cacaagttac 60
 ggcaccagtt tcacgtacta gtagcactag tcaatgtgta cgtgcaatgc acgttaattt 120
 ggaactatat taagtgcatt cagatattaa gtaggatatt atttgtgtgt tattatgtga 180
 ttagcactat ttttggcatg aaattaacta cacgctaaac gtgttgagcg ctgcacattg 240
 aatcagtcta ggtcattgga tgagaaggaa tacatgcggc ttgatgacgt tttatattta 300
 atttgatatg gatctagcag aacattcaat catcacacca tagatttcat tcagtctgac 360
 tccgacttta cattcatacg atgatcga 388

<210> 5820
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F4

<400> 5820

tcgacggggtc ccacaatcat ccatgctgta cacacctttt gggataagcc tacttgatta 60
 ggatttatta gaatatgcta tgagcttcac ttatatcttt tgagcttgat agtttttgct 120
 ctagtgcttc acttatatct tttagagcac ggcgggtggct taattttgta gaaattgcta 180
 gtctctcatt cttcacttat attattttga gagtctttta gaacggcatg gtatttgcta 240
 tggttataaa attggtccta gaatggtagg catccaagtt gggataata aaaactatca 300
 taggaagtga attggatgct atgatcaact tgatacttga taattgtttt gagatatgga 360
 ggtagtgata ttaaagtcac gccagttggg ttgatatgaa tttaaagaat gcttgtgttg 420
 aagttagcaa gtcccgtag 439

<210> 5821
 <211> 449

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-F5
 <400> 5821

accggtcagg aattccccggg ccgacggggg agaagaaggt gctgcaagca gagaaatggg 60
 gcctaaacac gaggggaacgc aactgaaag tcagagagat gaacgaccgc ttgaccgctt 120
 gatgatggca gagcgagcct tcaccaacag agaagggctc gcagggagac cgtggtacaa 180
 acacatgatt tatgcgtcgt cggaccagga cgactggggc accaaggcgt tccccggcat 240
 cgtctcggcc atggccaacg cacagaagct caacacgtcg gagtcttggc ggctgttgca 300
 gcatgagatt tacaggggtg caagggccgt gtccaaggcc tctgcagtcc tggatggaag 360
 gctaacatga tgccggagta gacatcagca cagcacanca cagcacggaa tttaccggtg 420
 caaataagta gggaaaggga aaaagaatc 449

<210> 5822
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-F6
 <400> 5822

ggtcaggaat tccccgggccc acgggatggc catccatgtg acctcggaga tgggctagct 60
 cgccaataat cagcgaagta gctagtcccc gaagacaacc acttcatgtg tgtggcccaa 120
 acatatgtat ggagaggtgt gtttttgagt aacaatggaa caactttgat gtggcaccat 180
 gatttcaaac tagaaatccc cacactgagt gagggtagg ttgacgatgc atatgtatgt 240
 tacaccacac ttcaagccag tgacggggat tcatgcatgc atgcgtgcat agtatatacg 300
 gtcaaactta aggtttgaat ctcaccgtga cctatactac gataacacga accaaatgaa 360
 gaatccgcca tggttaccta tcttggtg 388

<210> 5823
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F9

<400> 5823

ggtcagaat tccccgggtcg acggaagcg gcagtcgac ttagggcact gacgatggag 60
gacctgaggc aggccaaaaa tcaggtcgcc gcgagcttcg ccgaggagg cgctgtcatg 120
aacgagctga agcagtggaa cgacctctac ggcgaaggag ggtcgaggaa taaggagcag 180
ctgacctact tttttagtaa ccggaaggat ggtggatgtg tcgtgttggg caaatcgctg 240
aagccttggc agagcatgag catacatatg ttgggtggaa aaggagagag gatttcctgt 300
gagcaaccgt gagttaggat cttggagtga atggactcct tgagatgtgt ggcagggggc 360
attggatcat gtacgattct tttatacgaa caagtattgt agttattcat tattatata 420
gtttagctg gtttg 435

<210> 5824

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-G10

<400> 5824

ggtcagaat tccccgggtcg acggggacgg cggagaggaa gggcaggacg gcggaagaga 60
gggggagcag gctgaggaac aagtgaagcg tagtaacttg caaggagctt agaattgatg 120
gccatggatg aactcccgag gagcgtgcat ggccaacttc ttgcttccga tcccttccca 180
atgtgttggc atgcatacct gtggttcttg atcatttttc ttactcgtat tggtttcagt 240
gcatccatt ttttgggtgg agatgtgggg tgggcgtcat ggttgagaga ggggtacatt 300
tttgtaatta aattaatgga tggaggaata ataatcaagt ggctataatc atatacaatc 360
tatgggtatc tcactaatca c 381

<210> 5825

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-G6

<400> 5825

ccggtcagga cttcccgggc cgacgagggt tgtcaacatt gagacgtgtg actgcacctg 60
tcgaaagtgg aatatttctg ggttgccatg catgcatgca attgcagtat ttgagcgcac 120
tgaggaggtat gcatatgact tctgtgtgga gtatttcacg acgaaacggt accgctcgac 180
ctattcaatg tccataaatc cgatacctga tgttacctta acggacaatt ctcagagtcc 240
agcgacatta ccattcccaa ttcaaactcg tcgacggggtt ggcaggccga aagagaaacc 300
agctgatccg cgcatacaaa ttaaaagggc agtgcgctgc agcagatgta aaggttatgg 360
tcacaacaaa gcaacttgca aaattcctat cagtggcgaa gccttgcccg ccttgccacc 420
agctgacctc tccgatgtac ac 442

<210> 5826
<211> 442
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-G8
<400> 5826

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agaacttgac tacggacatg attttaaggt ccctttgttt aagtgcaa at ggggtcaatct 120
gtcaggaggc ggggtacagg tagaccaca gtagggaatg acaacagtgg atctcaacaa 180
tcttgcgat gcagacgaac cgttcgtcct agccaatgat gtggcacagg ttatctatgt 240
gaaggacatg tctaccaa ac cgagaaaaag aaaagataag gaagcgaata catcatacga 300
tgagccaaag cgccacatag ttctttcagg aaaaagggac atcgtgggag tggagggtcaa 360
gacagacatg tctgaagatt atgaaaagtt tcatgaaatt cctcncttca aagtcaaggc 420
tgaccaagc atcctgataa ac 442

<210> 5827
<211> 459
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-H11
<400> 5827

gggccagaat tcccgggtcg acggggtgac aagaggagtg taaccacttt ctttgaatca 60

tttgcctcgt ctctataatt gcccgtttta gttagtgaag aaaatcacct aaaaaaagtt 120
 agtgaaaaaa aaacaagtga aaaccgtcac ggcaattcat agggcaacgc tggccgatct 180
 gactacccgc gtaaagagat acacgttggtc aagaagagaa catcgttggtt tcgttgagat 240
 tgtcatgaag tgtcactgtc gtcacttctc cactgaggca cggctccgac ttcaccattg 300
 acaaccgtca acggaaccct tactgaaaca aacgagactt tgacaatgag ccttgcaaga 360
 gaaaaatgga agaaatgccc aattttttat taagtttgat attttggtat tcaatatttt 420
 tctgcttaca ttgtaccaca aaattgcac gtgtcaaaa 459

<210> 5828
 <211> 347
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-H12

 <400> 5828

tcgtattata ttataatanc ntatagtga tcgtattata cgttgagtc tttgcctcgt 60
 ctctatactt gccgttgta gccagtgtat accctcagct ctgcaaaactt gatgtcgacc 120
 ccacacctca cgaccctctc ggcatttcac agggcagctc tgttcgctct gactacgctc 180
 gtacatacat cctgttggtc actaacagaa catcgttggtt gccctgagat totcatgaac 240
 tgtcattgtc atcacttctc catgacgcaa cggctccgac ttcacgattg acaaccgtca 300
 ctggatccct tactgacgga ctaccgactt ttgacactga cccttgc 347

<210> 5829
 <211> 410
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H5

 <400> 5829

ggtcaggaat tcccgggccc acgggagagc ttagatagta gagttgggaa atccaaaacg 60
 gtggatgttc ctgaaaagcc acgaatgagc tcagatgacg ttgacaagtt taggaggaga 120
 agatgcttgg tttggtgatc tatgatatga cgtctgcaca gttcatggag tagtttccga 180

acaccatgga atggggatca agcaactgtg tcatactgta tagcgaggaa caacgccgac 240
 agttccccga gtagagggat aatagctgtg ttaaattgtg gagaagaaga atgaggacgc 300
 tgggtgaataa gctgttattt atcaaagagg gtacgtctca acatggtaac tttctcggtt 360
 aattaacctg tattgcaacc cccagtgggtg gtaggatttc atcatgtaaa 410

<210> 5830
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A10

<400> 5830

ccctatagtg agtcgtatta gggactagac gtggtagatc ggactcagct ctccttcatt 60
 ccgccaagga aaaatcccat ccgcgagcac ctccccatac gcacaagaaa gcgcacctcc 120
 cttgtgtcat gcaggaggaa aagatcgctc tctctccgaa cccgtccccc tcaaggatga 180
 tgcgctgcct acgagactga cgggcagaca ttctctttga aagaccgaca cgcgtcattg 240
 ttgatcgagt tccccgtgc atcgtaaact gagatgccga aggagagcgc ctttaaggctg 300
 gtctgggtcga gaggcaattg cgggaagagt 330

<210> 5831
 <211> 244
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A11

<400> 5831

tatagtgagt cgtattaaaa catacgactc acggaaggga gtcctcgtca cttgggtgac 60
 tcacgctcgc gtctccgaag aaatcgaacg cagcacacg acgtcgcagg acggatttct 120
 gggaccattg ccaggagggt cttcgtcaa gtcaagacag accaggtacc catcacatag 180
 gccatctccc tcgcatttac aggagttgcc atttgctctt cggttgcctc acccccactt 240
 cacc 244

<210> 5832
 <211> 57
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A8

<400> 5832

tgagtcgtat taaaaaatac gactcactat agggagtcgt attaagtggc acgactc 57

<210> 5833

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B10

<400> 5833

tggtccaccc tatagtgagt cgtattaagg aactgaatat ctgggtgcagc cgcttggccg 60

tgctgaagac gaagagcatt ccagtgactt cgagccagaa gaagatgggtg atgggtgctga 120

ggacgaggag attgacgatg acgatgctga ggatgggtgag gatcctgtca aggcgcaatc 180

ctcatcaaag aggaagaggt ctgggtgggga ggatgaagat gatgaccaca gtgatgatga 240

tggtgatgat gatgagaagc ctcatcaaa gcgatagtca atttgttcgt gctgatctgt 300

gatcttctct gcttggggcca agaaggaaga taatcctcat ggagaggatt gttggtaaata 360

gctgtagct 369

<210> 5834

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B11

<400> 5834

accctatagt gagtcgtatt agctgcgtgg tgacaagtac agcactgatt gcctcagctt 60

gtacttatac ctggatgcat cggatgagct ccatctcgag tccaagatgg tggttgtgat 120

gactcgggtcc atcctggacg aagtgaatgg gaaacacttg actgcaactt caggtctctt 180

agtgtttacg ggtggatgag gctggggatg ggctgatttc cttggactca agaattctcaa 240

ggacccgtcg ggaggctatg ttgtgggatc gagctgcgtt gtgaaggccg atctcactat 300

cgttggttca tccaatgatg gttagatgtt tacctcatgg cctgatggag agataatgcc 360

cttacatcct acgtatgact agacttctat ttgagataa

399

<210> 5835

<211> 338

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B12

<400> 5835

gtgagtcgta ttagatctca cgactcacgg aaagacgtag cctacacttt gctgcatcac 60

cctcgcccct tcgaggaaaa ccaacgcaag ctcaagacgt agcaagaaag atttctggca 120

gcattgccag agaggtcttc gcgcaagtca agacatagca ggtacccagc agaaacccat 180

ctccctcgca ttacattat ttgcgatttg cctcgcggtt tctcgcgcc cacttcagca 240

ttgccgtttt attgaagctc tctttccgaa tctccgcctc tcttttcgct tcccttcttt 300

tgtgtgctcg tttgcttggt tgaccttatg ggcgcgcc 338

<210> 5836

<211> 443

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-B7

<400> 5836

ggtccagaat tcccgggtcg acattgtgca aagctgggga tttggatggg gcgttgagg 60

tgcataagaa gagtgggcag ttcaagcatg tcctgggtgga tccgaggcag tacggtgtgt 120

tgatggagag cttgtgtgca ggtggtaagt gtgatgggtc tgtgcagggtg ctcgatgagc 180

ttctagagaa gggcacactg cttagcccaa agagtccagt gatggaagca ccggcttata 240

atccagtgat tgagtatttg tgcgacaatg ggaataccaa caaggccgag acgttcttca 300

ggcagctgat gaagaaaggt gtggatgaca agtctgcatt caacagtctt atccgtgggc 360

atgcaaagga aggtgcgcta naggccgcaa aggagattct tgccattatg acacgccgtg 420

gcgtccctac tgaccccaact cgc 443

<210> 5837

<211> 459

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-B8
 <400> 5837
 ggtccagaat tcccgggtcg acggggaaga tcgtatggat ctgatgagag ctgtgattat 60
 tggagcaagt ggcacaccat atcaagatgg tctgttcttc tttgacttct atcttccacc 120
 tgagtttcca cgagctcctc cgtcggcata ctatcattct ggcggcctgc gtgtaaatacc 180
 aaacctttat gtggatggga aggtttgttt aagcctctta aatacttggga ctggcagagg 240
 gaatgaagta tgggatccat cctcatctag cattctccaa gtactagttt cactccaggg 300
 gctggttctc aatgaaaagc cctatttcaa tgaagctgga tatgagaagc aagtcggtac 360
 tgttgaaggg gagaagaatg cactgccata caacgaaaac acatatctgc taagtgtgaa 420
 atccatgttg tatatcttga ggcgacctcc tatgaattt 459

<210> 5838
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-C3
 <400> 5838
 attccagggc cgacggggca atgaaacacc caatTTTTTT gtgcagttcc accaaaatcg 60
 agcatccctg ttggcacata tattgagaga gtgagattac tgtaaatagtg ggactacttg 120
 atgaaacata cactaacaaa tagaagcacc gtcattatct taatgggtaa agttagcaac 180
 atagtagtct tgcttaaaga gaggtattag tttatttaat cagtgccaat tagctcaaca 240
 ctcaaagcat taccatttat cataggttgc aaaactttta tgtgcaaaga taaaggagtt 300
 tctcatgaca gtagcacgat acaaataagag atgacaacaa actaatatgg atgaaggcct 360
 taggcccgtg acaacgtgag aaaaaagct tattcatgta gtcccataag agatgataaa 420
 gcactcactg gaatcacact atagtatata tttttgtgca c 461

<210> 5839
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C7

<400> 5839

gatgggaaac cctaaagtga gtcgtattat tttataaaaa ttatagtatt attgaaacca 60
aaattatata aaatttatgc aactaaaatt atcaaagtat tttctgttca aaacattaaa 120
agaaaaaaga attttcataa agaaattttt tgtagaagaa tttaatagca gaaagaatta 180
tcataaagaa ttttctgtta gaaactaaaa taacaaaata tggttttgaa tataatgata 240
aaacacagta atatttaata gcatgaaaaa agaactactc aaaaatctac ttttatagta 300
aagctattca aaaactagtg actcacacaa atttccaaaa attcaaattt aaactattca 360
aattagaaaa caaatggcac taacagaaag tttaaatttt ttagtacata aaagcaaaag 420
gaatcactga aaaact 436

<210> 5840

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D2

<400> 5840

cctatagtga gtcataatat gagcgagaca cctttgctaa aaaaaacaag cggcacatta 60
acataaaatt ctttttcctt atgtttgttt ctttttctt cactttagaa aatgttccag 120
aaatatatgt ttggacaagt attctcatta aggggttggtg tattctcatc atgcatctct 180
aataagtgtt cacctattta aaaaataatc attaactaaa aagttgtcag tattgtcaaa 240
aggctcacat caataaaatt ttctcggac atttccaaaa aaaaaaactc taagttgaat 300
agtttctaga tgaaaccgca aacattttca caagtacata ataacatttt caaaaaacaa 360
acaagaataa caattttgaa atacaccaca tttttctaaa acaacaacat at 412

<210> 5841

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-D5

<400> 5841

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atcatttacc tactcgagga cgagcaggaa ttaagcttgg ggatgcttga tacgtctcca 120
acgtatctat aatTTTTgat tgttccatgc tattatatta cctgttttga atgattatgg 180
gctttattat acacttttat attacttttg ggactaacct attaactgga ggcccagccc 240
atattgctgt tttattgcct gtttcagtat ttcgaagaaa aggaatatca aacggagtcc 300
aaaaggaatg aaaccttcgg caatgtgatt ttttgaaga atatcatctt ggagacgtgg 360
actccaagtt agaagatact cgaggactcc acgagatagg agggcgcccc cctgtanggc 420
gcgccccctg tctcgtgggc ccctcga 447

<210> 5842

<211> 321

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D6

<400> 5842

ctcacgggtc gacgggactc catatagtga ctcgtaatag caggatcgca agatgactga 60
ttcaaataag tcatacaacg tccttgttca accgtcatgc tccagttcag tagagaacta 120
cactatgatt ttttgatcta caagagtaaa catatatgca tcatacggcg gccgctcgat 180
atgattcaaa cgtaattagc atgtgctgaa gatctcactc ttcattagtg gcagttacac 240
tccattcaat gggcgctcgc atataacgc ttgactggga aatccctgta gttcactcac 300
gtaaacgcca agcatcacat c 321

<210> 5843

<211> 412

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-D7

<400> 5843

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cgtgggggtg ttgctggagt cgtactaggt cgaggctgac cggggacgga ggaggagggc 120

gctgacaggg acgccgccgg ttccgtgaag aagaggaagc agagaagcat acgacgagga 180
agaagccttc ggggtcctcg tggtcgctg cgaggggtgag gaagacgacg aagagggctcg 240
gggttctctc cccgtggcag caacgcagac gacggagggtg ttcaggccgg ggacgagctt 300
aagctctcct catccagggc gacggctatg gtgggcgacc tacctgggtg ctgcagcagg 360
gagaggggga aatggagaga ggagaggcta nggtanggtt tggagaagtt tt 412

<210> 5844
<211> 144
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E11

<400> 5844

ggtcgatggg gctcgctagg atgaatcatg ctacgacgaa gccttctaag cgcaagaaag 60
aagtcggctg ctcaagaaga tccacgctta cgtacgcgag tatacgaggt cagagctcta 120
cgaaaatgtc accgaacttc aatt 144

<210> 5845
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E12

<400> 5845

aagtgagtcg tattactgct agcatatccc aactactca cgctaacaat gtcaattatg 60
ttctcgcagg agcttcccag ctacacagca ctcgctgtac ttgttcttcc cctgtactac 120
ttgtactcca aggctagttg tagattaaag aagcctgcag tgctccccac aaactggcca 180
atattgcaca tgttcccttc cttcctggcc agcctccaca agatgaatga ctatttcacc 240
ctggtcctcg ccggatcagg cccaacttc agggggcacg gcccacccgg gaccgggatg 300
cggttgttcg tcacatgcga tgccgccagc atccgggaca tcttcacgaa gaactagacc 360
aacgtttcca aaggggc 377

<210> 5846
<211> 314

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-E6

 <400> 5846

 ggtctagaat tcacgggtcg acggaatac caatagtcac tcgaagtaga acaagcttat 60
 catggatcaa tggaagtttg catctaactg gcatgcagtc cgctcaggca ggtcaatggt 120
 tcagaaaggc actgttcttg ttgcagctc atcttgctat ataagcgtat tcctactcag 180
 aacaatcatc tgattccatc ttgactgcga ctacgctaaa ggatccaacc ttacatgccc 240
 gtgaatacaa cctcatatcg caactatagt gtaacaactg ttcaattcac aggactatcg 300
 ttttacaatc atct 314

<210> 5847
 <211> 81
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-F12

 <400> 5847

 tgcgacaccc tatagttagt catattagtc cagggatgtc gataaggga gttgttgaat 60
 acctactctc tcgatgccgg t 81

<210> 5848
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-F6

 <400> 5848

 ggtctagaac tcccgggtcg acgggtgtcc aaagggtggc acgagggaaa gatctacttc 60
 gcgccgacgt acaagtacaa gctcaactcc gacacctatg ccggcgagac gaccaaattc 120
 aagaggaaaa ggagaacacc ctcatggtgc gaccggatac tgtggcacgg caaggggata 180
 gagcagctgc agtacatcgg gggggagcac cggttctccg accaccggcc cgtctgcagc 240
 gtcttcgtgg tcgaggccga cgccaacaac gggagcagga tcaggaacgg ctactccacc 300
 ctggactcca gggttcattg cgagtcgccg ttgccgatac cgcagagaca cagcttctat 360

gacttttgac ctgttatagt gatcctcttt tgtcgatact tcttctatac gttacaagga 420
tcagaaatgt ctattgagac ggggggctga acgtttttc 459

<210> 5849
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F7

<400> 5849

atagtgagtc gtattaaaca ggaggtcgca atcgatggag tcggcttcag caacatcagc 60
cagttcatct ctttatgcag cgtcaagcag gg 92

<210> 5850
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F8

<400> 5850

atagtgagtc gtattaaggc gagacgatca tcacaggcac gaacacatta gtcgcgccac 60
gggctttggg caagccactt gggctggacc aagaaagatg agagacgaga gggtgctgcg 120
gccgagctag acatcgaagg agtgagttca gacatctggc gctgaaggag tgagggtccgt 180
gcgaggtga ggtcgtcggg gtgatcacgt cccac 215

<210> 5851
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-G11

<400> 5851

cctaaagtga gtcgtattat gctctaaaag atgtgcgaga ggagttgaca attcatggcc 60
ccagcgagtc accaaccaat cccatcgggt ccaatgagta gcggagctag gcaggaatca 120
tgggggcagt caaaaaatgg aacaactaag agggtaaaaa ataatctttt ctttatctaa 180
tctccacaca gtaaaatttc ttcactgttt tgcctaaggc tgggggtcgg cccctcaga 240

catgcactag ccttcgccac tggttccaat atatgtgcga gaacaacagc acatcgga 300
 ttcttagtct acgccttggt caagcgattg cccctacttc cgcggatgtg gtgcacatat 360
 tttggaggaa acagtaaaat gcaacaaaaa aaattaaaaa ttaatatcaa cttcatttgt 420
 ggca 424

<210> 5852
 <211> 269
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-G4
 <400> 5852

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 ccataattta tagctggatt tcaacactta tatatctaga tttacgcccc tcaaaaaatt 120
 atatatctag atctatgtta ttacagtaga cacaatgtca tatatgaccc acggtgattg 180
 tacttatact attcgtgcaa tatatatgta tatatacatt cgtgtaagcg tgcaaatatg 240
 taatgatagc tctattaaat tatgttctc 269

<210> 5853
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-036-Q1-E1-G8
 <400> 5853

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 cctcagtgcg ttttgcgagg cagtttcctt ggcacatctt gttgaagcag agatcatgtc 120
 cccttatcac gggattctca tcaatacggg cgttggtaac ccaaccgtgc caatgattac 180
 gggacttggg ggaaaagcga gttttgccag gctggtgggg acacatagcc ttatccgccc 240
 atataagggg ataaggattc atccttttat ccacgccttc ttcttccttt gctcatccat 300
 cttcgcacac tcgagctcca gcgcccaagt ccgcatttcc cacctcaacc ttctccaacc 360
 atgtccggag tgggaggcan gtggatggtc tcctccgtca cgganggaaa catcaagaag 420

ctgaggagag ccggatacct g

441

<210> 5854
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H1

<400> 5854

ccctatagtg agtcgtatta gtccattgga gctgatgttt ctgatgctga gcagggaaag 60
gcagttgagg tttctgatgc tgagcaggga aaggcagcta aggtttctga tgctgagcag 120
ggcagggcag ctggagatat cattttggag gaagatccag ttgaggggtgt tgttgagact 180
cgtggtagtg ctgctgcagg ccaggagaag tctcctgcag cagagccatc agttgatgtt 240
gatgctgggt ctccaactct tcctagtgtt ggagagccaa tggtttttgt tgtttcagat 300
tctccagctg ctccagctgc tgggtgtgtc cttcccgaca atgctgctat gtcaactgga 360
gatgatgatg aagagactga aagcgatatc tatgaagccc aaaaaaaaaac aaccaggggc 420

<210> 5855
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H11

<400> 5855

ttgtaacacc ctatagttag tcgtattaag cgctcggaaca ggataaactc gggaggggct 60
acgtcgttgg gaagctcgtc tggctctgatg ggaccacta tgtgaggagc cccatcgtgg 120
taaatgccct ggattgagat tttcattttt gtggtgtgta gcccaaggga aggaagtgtc 180
atgagtttag gaattttctt ttttagttta ctgagaatga gatgagttta taggttttag 240
ctcaa 245

<210> 5856
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H2

<400> 5856

ccctagagtg agtcgtatta catcaagaac tgcacgcatg cctgccccaa gggactgaac 60
ccggcgaagc agatcgacac aataaagaag ctgcagctcg gagcctgagt gaggtctact 120
accccgtgga gatgtggaaa attgtaatca gcctggcatt tggtttggtt tggctccgtg 180
gtgacaaata atgggtggaa acgcaggata ttcccagctt gacgattccg tgtagttcgt 240
gaataattgc taccagattt tattcttttc gtgctgtatc tagtttggtg gttctccgtt 300
gatcatcttt tgatgtccat gcatcaatta attcataaac ttttggaana aaaaaaaga 360
aaactcaaaa aaaaaagcgg ccgctct 387

<210> 5857

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H5

<400> 5857

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aaagggattc taggttgtga agcaaaacta aagggatgtg gataaaggga gggatgatag 120
aaagaaggaa gaggaataa ataagatata ggattccact atgtatggc tatgaattac 180
atcataaaag gcaatgtgat aaagcatcaa tataataaaa ataatagaga attaaaaatt 240
ttaacttgaa acaagaacta caaatttaaa gcaataataa agagccgccc gggttaataa 300
aactgagaaa attactcgg aaagaaattt tttggaagct ccgttgccgg attcagacct 360
aaccattcaa ggagaagcag tgggaacgac agaacctatg attccatagg attttattga 420
aaagaatcct aacac 435

<210> 5858

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H7

<400> 5858

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catgctgctg agaaccactg tctacgaaac ctgcagcagc gtacattgtg attttttttc 120
 tcccccttcc cccatttgtg atatctgttc tttgttgctt agagtatatt atgtccgaat 180
 tgtatttata cacactgtga caccgactat ttatataagg cagctggtgc atc 233

<210> 5859
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-A1
 <400> 5859

tcgtatgtcg atgcgactcc ctatagttag tcgtattaaa ccattccgag atatattgcc 60
 atgcaacttt ccaccgtcct gtttattatg acacgcccc a tctgtcatat tgcttttgca 120
 tgatcattta gttgacatcg tatttgtggc aaagccacct tgataattct ttcatacatg 180
 tcactcttga ttcattgcat atcccggtag accgccggag gcatccacat agagtcatat 240
 tttgttctaa gtattgagtt gtaattcttt agttgtaagt aaatagaagt gtgatgatct 300
 tcgttattag agcattgtcc cagtgaggaa aggatgatgg agactatgat tccccacaa 360
 gttgggatga gacttcggac cttataaaag aacagagttc tccgtc 406

<210> 5860
 <211> 187
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-A10
 <400> 5860

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 aatccgcacg tctctcaccg atcacggaat gagggtagaa acaacagcag gatcagcagc 120
 tcaattgggc atgtaccgta cgatacagtg aaatcacacc gtgtcccagt catgtcatgt 180
 cgactgt 187

<210> 5861
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-A11

<400> 5861

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gctaattttt tggctttaga ttttatgaac tatgcaagtt acgcatctat tcatgtgtca 120
gatatggaaa aatcaaggga agtaaaaatg aatgacatat acatatacaa catgtacacc 180
ttgtctcttt tgtaacgat atttcagatt aagcaacgcc gaggacggct ttattttcaa 240
gaaggggagg atgatgagga caggactacc ttggatatga ccaataatat tgcatatatg 300
catatttgtc aggtgatttc tagtgcaaac tattcaataa tctacttatg ttatccagaa 360
caciaatacg tcacacactt ttgtgttttg tacaattgca ggtgtatggg acatttg 417

<210> 5862

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-A3

<400> 5862

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gggaacctaa gctacctaat cctcgtgtac tttcgacata cgttcgtcca gagtaagctc 120
tacgatgaaa gcttgaacct gcttgtgatg gagatgttat tactgtggtg acctgaaatc 180
ttgagtcaca gaggctttca agcattatgc acagccactg aagaaatact cggacacata 240
caccataat ccatcatgcg ggactttgcc tcagattcgt gaattacagg atgaatgatg 300
tgatgttcaa actgctggat atggcttact gaagacgtac cacgcaaca acgagtactg 360
tccgttttca gat 373

<210> 5863

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-A5

<400> 5863

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ggaggagaca tggataattg gtgctctact tacttttgtgt tgtggtcggg ggtggtcggg 120
 tttgttcgcg gagactgctg ttattagtct gttggccgag ttgtagagaa ctctctttgc 180
 tgctgctgct gttacttcct tctgatgttt tttcgttttg ttattatata gccggatgaa 240
 gaaaagatga tgcagtttta tctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcggccgc tctaaaggat 360
 ccaagcttac ttacccttgc atg 383

<210> 5864
 <211> 338
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-A8
 <400> 5864

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 caggcttaac tacaaccagt tcgtgtctat tattaacc gccacatact ggagaaaggc 120
 atcacgcac tacccgagag gcatattcag gagccttctc atgacgcttg tgacggacgg 180
 ttccgtcaaa ttggacgtga attaaaagcc atgggtgtga cttgtgcatg tatgttacag 240
 catttgggcc ccacgaatca acagctcctt taatttttgt catggtcttt ttgcgtggaa 300
 atttagatca gtggaacccc atcagattgg ctacacatg 338

<210> 5865
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-B11
 <400> 5865

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 atatcagtac cgtggccacc tgattcattc attgggttat gaggattctc atatttgtgt 120
 gtcatgcact atcaattgaa atttccatgg acgtacttct gggggcctct tttcagagat 180
 tactgtcctc agagtagcca tatcacacgg caattgcctt ggcgacagct caagtattca 240
 tggcaattgg acagcttcag ctttgcaatg agtaggctcg gcaaaatgta cattggcaca 300

ttgcttatcg agctctggta ctgcacccac tgggcatcg tgccagctgc tgcctctgaa 360
 ctgtttggcg tgaagaattt cggagcagtg tacaacttcc 400

<210> 5866
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B12

<400> 5866

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 agtctcgcaa aatctcgaag gttgggtgata gcgtgttcat tgaggaaatg cctgatattc 120
 taaggagacc ttcttctcct ggtatcgtga agacttgttc ccctaatagga aaaagagttt 180
 caccgccaca taatgcactc agcatttcag caaaccgaaa aggagggcgg aagctgatag 240
 tgaaatcgat ggctccttt ccatcagtggt ttggggagac gagcgggtgga tctgcaatat 300
 gcagctccga cagcagaaca gctcttgctt taggtccatc gtaaaagctg ggctgggcag 360
 ccgattatcc gcgagcggag 380

<210> 5867
 <211> 360
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B3

<400> 5867

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 tacggcatgg gaggcggcat ggcattggtg gcaaactggc cggctctgtat cccgtgttct 120
 actcttccgc aacggagacc gcaccttcac ttcacgggtc ttgaaaccg cgcccgtaca 180
 tacagatcgc agatggacga cgttgggtcac cgccggtaaa atatgttcac gatcgggttt 240
 cgtttatctt tctgtccac aaaagtacga actgtagtga caatctggcg tgtctgacaa 300
 aagctcggct ggtgtatatg aactttcaca atgtacaca tattgtcaga gtattacaa 360

<210> 5868
 <211> 360
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B8

<400> 5868

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ccacctagca tggaagatac aaatagacct agttgaaaca tgagctgctc gagtatacaa 120
aacagcattt catttgaagg tttggagttt ggcacataca aatttaattg ggacggaagg 180
taaataccgc atataggaag gtatggtgga ctcatatgga acaactttga ggtttatgga 240
gtttggatgc acaagcagta ttcctgctta gtataggtga aggctagcaa aagactggga 300
agcgaccaac tgagagagcg acaatgctac gtcttgagct tgtgttggtt ttccccgaag 360

<210> 5869

<211> 406

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-037-Q1-E1-B9

<400> 5869

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agcttggaag atcagtataa gacataaagg ttaaattagt tactcctcgt acaacaatta 180
cagaatctag actacaacga aacagattca aaatccaacg atgcaataaa ttcactcaca 240
agagacaata tgctcccatc agccccgaag gcatgtacag aacatcagct ttctgcacag 300
catcgatnt gatcagctgg actcatagac tcagcacagc accagccggc gaagttcgta 360
gagcgtccga taagccactc cacaggatca gtaacagtcg atccaa 406

<210> 5870

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C1

<400> 5870

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accaggatct ggatactgcc aagagcagct cctcggttga gaagagctac tcagcttcct 120
gatggtcacg tgatcatcac tggcgcacag aggttcaggt gccctgaggt cttcttcgag 180
ccatccatga tgagcattga gtcttctgga atccatgata cgacctatac ctccatcacg 240
aagtgtgacg tggatatcag taaggacttg tatgagcaac attgtgctca atgggtggcac 300
aagcatgttc acaggtatcg ctgatcgtat gagtaatgat ataaccgccc ttgctccgaa 360
caacatgaag attaagttct cgctccacct gat 393

<210> 5871
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C10
<400> 5871

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ctctattacg tggaatcggt gttcgtaata cccttgtcac ctatgaccgc cacaatgaaa 120
agattggatt ttggaaaact aactgttcag agttgtggga gagactccag agtgatgggg 180
ctccttcacc agcaccttcg agtgatccaa gttcacaagc agatttagcg cctgcgcctg 240
ctcgaggtgg tttgccagaa tatgatgttg gtcgcagcgc tgtttacatg tcgatagatg 300
ttacgtatcc aaacctgaga ccgcccctag atgagttggc tgagctgttg gctaaagcag 360
ctgagataga gtccagtcag gtccga 386

<210> 5872
<211> 435
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C11
<400> 5872

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gaactctttg gacttccacg cgtggagact tcgatgtcat taatgatggg tccccagctg 120
aactcggtag tgttttacta taagactacc acgtggatcat gtttgtctgg gacagcgtgt 180
tcacatgttt gtagcaaaac cagctcatgt tttggagctt actatcgtag ttcagtcgcc 240

gagaatcgcg cagcgttggt ccgtcggaatt gtgttgcaaa ctttcatttt tctgcctaga 300
ctcgatgagt ctggaatatc ctgacagcaa ccagatctga atctcaggca tatatgatgg 360
tttggaaacat ttcccaagaa ctataatatc ggtccctcga ataccggtaa agtggatgtc 420
gtgggcaaca tcacc 435

<210> 5873
<211> 89
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C12
<400> 5873

tcattacaac accctatagt gagtctgatt atgttcggat catgagcata gggtttggtg 60
ccatcgtggc tgtgccccag gttttcggc 89

<210> 5874
<211> 316
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C7
<400> 5874

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acagcctacc tcggcggaat acgtccacaa catggccggg ctataagggt cgtctgcctc 120
gccagatct accgagtggg taccaccatc taccactggc tcgacatacc ctgggtcagg 180
cgctactacg acttcgggtt cgaccacttt ggcatgtctt ggcgacacagt cgggtgtgtca 240
ggcctacca gcctactcgc tggcacctcg ggaccgttcg ccacacgaga ctggattcta 300
ccggacctca ccatcc 316

<210> 5875
<211> 137
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-D12
<400> 5875

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 ttaaaagaac cagagtgagt atccaggagg tagaaccgtc cgagggagac gcaatagttc 120
 agagactgta aatgggtg 137

<210> 5876
 <211> 222
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D2
 <400> 5876

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 catgccaaga ctacgagact tcacacgccc gaccatgtca atggcgacta caccgtcttc 120
 gccaacgccca ggataaacag caggaagatc cataaggcca cgtcctgaac atgtgacagg 180
 cttgaagcaa cactgtgtga gcaattccac gccgtaggac ac 222

<210> 5877
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D6
 <400> 5877

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 agcaggagga ttgtttacga agaaacaaca gaaaaaatc atattctgat acagaggagt 180
 tatataggaa tcgaaatagt cgttgatttt ctttgtgaag aaaaaaatg gatttcattg 240
 aagtaataaaa actactccaa ttcgaatagt agttgagaaa gaatcgcaat aaatgcaaag 300
 atggaacatc ttggatacgg tattgaagga gttgaaccag gatttccaaa tggataggat 360
 aggggtatttc tatatgtgat agataatcca aatgcaaaaa tttgtcttc 409

<210> 5878
 <211> 207
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-D9

<400> 5878

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tatgtcataa tgtaagcatc tgtgcatccg ctgtacagca tcagtctcac tagtcccaat 180
atgctcatat cgtcagtaac ggatctg 207

<210> 5879

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E5

<400> 5879

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tatgatagca agtcccaaaa catgagctgg ttctgctact cacatgtgaa tacgttgtcc 120
cagacaaaaca ttatcacatg gtagtcttac aataaaacac taccgagttc aggtggggaa 180
ccatcattaa tgacatcgaa gtctccacgc gtggaagtcc aaggagttca ccttagacag 240
actcctttat ctttgaacaa ctcaatcagt ggcttggtgt gctaggatat acatatggaa 300
tgaagatgat tactctaaca gaccacagaa ttcttcgcac gagcatgact gacttgggat 360
gactccaaag gaggtaaaac aagccttctc aaattcacga cggcaactta catcaaatgc 420
a 421

<210> 5880

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E6

<400> 5880

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gacataaatg ccaagctgga tgtgtatgaa tcttccaatt tactgtgtgt ttttatcgaa 120
atatatggta ctgatgctac tatttgtctc ttgataggca tacgggtgggt acgataatga 180

ccagagggca cagccgtatt cctatatact ctggaagacc aagcaatatt atcgggtctta 240
tattggtgag taagctgaca ttttcaagaa ttaactgcat tgattgagat cacatctcat 300
tagttagggt cattctgcta catatgtttt tacggcctcc atgttatgag ctctcactgg 360
cgaacatttt tggagttgca ctgttcagac cgggtgccta acaagacttt g 411

<210> 5881
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E8

<400> 5881

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cggcatcggg atcctgctcg tcgtcagtc tcatcatcat catctcgatc gtgctcacga 120
gtagctggag gaccaacaga aatcataacg agcggtagta ggaatagggt gtgatgatat 180
gatcctgggt tgcattgcatt cttgctgggt gttgttgatc gcttattgtg gaattttttg 240

<210> 5882
<211> 121
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F10

<400> 5882

tcgtaggaca ttacaacacc ctatagttag tcgtattagg tcgtcaattt gattgatgac 60
gggaagaacc ccgatgagtt caccaggagc gtgctcaaca gctgcatcgc caagaggcag 120
a 121

<210> 5883
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F6

<400> 5883

gggtccagaat tcccgggtcg acggggcccat ataaagcgcc acatggcaggt gagtgccta 60

tgacaaccac cgactgcatg tggcccaaac atgtatgtat ggaaggggtg tgtaatgttt 120
 taaataacaa attcatgact ttgatgtggc acttgcacaa caaaagggcc aatcctagac 180
 ggtgggttgac gacccatagt gtactggcag cccccctccc ccccaacaca cacaccgcac 240
 atccaccgcc tctatgagge atgttaaaat tttctgctat gaacatatgt gaccaaagga 300
 gtgtcgtgtt aaaatttgaa aaaaaaatca gagatcattc aaacactttt gtacattgat 360
 taatttccta gggatataat gtgcggaaat caaattagag ctacatgcac acgtgatagt 420
 gcaccaaagt ggtagaaa 439

<210> 5884
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-F8
 <400> 5884

ctatagttag tctgaatacc ttcgcggcag cacagccggc cacgggaggc aggagcatgc 60
 ggcacgaccg acgctgcttt gggcggctgg agcaagaagg ccaaagggtg aagaagcact 120
 acggccgttg gatggacatc gtacggtcag tggagctaga atcgttcata ttgactaaag 180
 ttgacaaagg cccccgtccc agtcaactta gtaggccac aagtcagcct cccaccatgg 240
 tgggtcccg aatgcagggg aagtattcat ttttttgtgc gtaataagga ggcacttccg 300
 gtgggtccga gctgacagcg gggggaacgt ttttttttgc aaaatacgct ggcccgtccg 360
 gtgggtccga gcagtcaggg ggaaacattt ttttcgcgaa ataaagtggc c 411

<210> 5885
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-G3
 <400> 5885

accctatagt gagtcgtatt aaacaatgtc ggtgtcaaaa cgggcggatc ttgggtaggg 60
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 taggttcagg ccctctctat ggaggttaata ccctacgtcc tgcttgattg atcttgatga 180

atatgagtat tacaagagtt gatctaccac gagatcgtaa tgactaaacc ctaaaagcct 240
 agtctggcta tgattataag gattcggcct atctacggac ctagacctcc ggtttatata 300
 gacatgggac ggatctaggg ttacacaaag tccgttacag ataaaggaa 349

<210> 5886
 <211> 126
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-G4
 <400> 5886

ctccctatag tgagtcgtat taagcgcttt gctaaatctt gacggcagca ccataggatc 60
 caatcctacg tacgcatgca tgccacgtga taacgctgca atgctgtcac gctaaattca 120
 attctg 126

<210> 5887
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-H1
 <400> 5887

tacattagac caccctatag tgagtcgtat taatcaaagt tatttactca aatggccagc 60
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 caaggcgaag agaaaaggga ttgcttcctc gtccggttcg agctggaatt gttggatata 180
 caaatgtcgg taaatcttcc ttgattaatc gcttgctaaa acgaagaatg tgtccagcag 240
 cacctagacc aggtgtcaca agagaactga agtggggttcg ttttgggaag gatctagagc 300
 tattagactc acctggaatt ttgccaatga gaattagtga tcaggcagct gcacttaagc 360
 ttgctatccg tgatgatatt ggagaaaggt catatgattt tg 402

<210> 5888
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-H11

<400> 5888

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cgtgacggac aatgcgccgc acgaaccagc acgccgcatg aaccagcaga cacttcgacc 120
tatgcccccc cttcaagatg tttatgaaaa ttaaaccgagc cgaaggcgag caggagggtc 180
cctcgtgcct gaggcgccgt gtcacaccgt gacggacaat gcgccgcacg aaccagcacg 240
ccgcacgaac caacacgccg cacgaaccag cacacacttc gaccagcaca cacttcgacc 300
tatgcccccc ccccttgacg atgtgtatga aaattaaatg agccgacggc gagcaggacg 360
ttccctcacg ccggaggcgc ggtgtcacag cgtgacggaa aatgcgccgc acgagccagc 420
acgccgcagg 430

<210> 5889

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H5

<400> 5889

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gagctcgccg aaagctatgt cttctcccag ctcaacgcgc gcagcgagg accatgatcc 120
atccagcgac cacttcatgc accatcctct tgtgcaatct gtctgtggaa ctacatgtgg 180
tagaatatgt gccctgaatc gtcaacgggt acaattcacc attgatttgc aggctacgat 240
tgacatgaga ctattgttga tgcttctcga cgctcgcag tcatatgtaa ctgtctagag 300
taagttgttc ttccacgtac tagcgcaact ttaagcgtc agctttttat ttcattggcct 360
gttagaatgc caatgcacct taatctcacc tacacgcatg gatcaacgtc gaattgagtt 420
atacgaaact tggaaaatt 439

<210> 5890

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H9

<400> 5890

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ctacctgatc atacccaatt ggataaagtg tgtagagatc atgtccgtat accgtacgtg 120
ctactgaagt aaaagattga gtctgtgtct aagggtactt atataacaaa tcaagttatt 180
cctaatatct acatccctca tcatgacagg gtacggcata acccacaatt atgaagttac 240
ctagcacatg agcaactata catgacatca tcgcagtctc ttacaccgtg tgtgggcccc 300
ccctcgagag tgcactacat gatccatac 329

<210> 5891
<211> 214
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-A1

<400> 5891
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tctatcattt tgtaaacata ccagttgtct cggtgataaa agcataaatg tttcctcctt 120
tcagttagtg aatattctcc ttggtcctg gtttagtatt ttcggagtac atgcaagtta 180
ctgtaacttg attgatagtg ttgtaagag atat 214

<210> 5892
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-A10

<400> 5892
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ggaaaatgaa gtttgacggt cgagcttgga gaggagaaac cttaagtagt gtggctcggg 120
cattccatcg aacaccttgt gtgcatagga ggtgagctag agcatcacca agccctctcc 180
ccctcggcca gaaaaaacag agcagtgtgc tctgtctttg cgtgaggggg tatatatagg 240
caccatcatt ggtcccgtt ggtggcatga accgggacca aaggcatccg ggaccaaag 300
gtccggacga accgggacca atggcccacg tggcccggcc ggcccctggg ctcacgaacc 360

gggccaaata gcctcattgg tcctggttct ggattgaact gggactaatg ggctgacctg 420
gcctggacaa tagccccctt t 441

<210> 5893
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-A11

<400> 5893

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gagaggagaa accttaagta gtgtggctcg ggcattccat caaacacctt gtgtgcatag 120
gaggtgagct agagcatcac caagccctct cccctcggc cagaaaaaac agagcagtgt 180
gctctgctct tgcgtgaggg ggtatatata ggcaccatca ttggtcccgg ttggtggcat 240
gaaccgggac caaaggcatc cgggaccaa aggtccggac gaaacgggac caatggccca 300
cgtggcccgg tcggcccctg ggctcacgaa ccgggcca aa tagcctcatt ggtcctggtt 360
ctggattgaa ctgggattaa tgggctgacc tggactggac aatatcccc ttt 413

<210> 5894
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-A2

<400> 5894

taccggtcaa gaattcccga gtcgacaggt aggcctaaac ctgctgctca cttcatgggc 60
atgcatcaaa gcctcggtat tcagctcgca cagcttggga aggatgcttc tgcagcagga 120
gctgcacgca gaggtactac tcagcggaag acagttgagg tcgagtctgt tgcagctgca 180
gggaagcaac aagctagaga agtagtgaag aaatctttcc gtgccgagtt cctcgagaag 240
ctgcacaaag atttgatga cgatatcgat gtgagagcct tggcaaattg atttatatct 300
gtcactctc tgaatgtgca cggccatgtc gagtctgaac tcgaagctcc agcgtcagac 360
tggtgtcag cagctgtgtc tgtatccgaa gaaaacgaag ctccagcgac ctaacagaca 420
ctcagaaatg tacac 435

<210> 5895
 <211> 465
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-A4

 <400> 5895

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gccgggcaac ttcttgggtg cgcgcgtgga gctgtcaggc ccctgcacct cctcgatcat 120
catccggctg gacggaaacc tcctcggaac cggcgacctc accgcctaca ataagaactg 180
gatcgagggtg atgcgcgtgg acaacttcac catcaacggc cacggcacca tcgacggcca 240
tggccccctc gtgtgggaca agaaccagtg cagcaagccc tacgactgca agatcctctc 300
caacagcctg gtgctggact acgtgaacaa cgcgacgac cgtggcatca cgcttaagaa 360
cgccaagttc ttcaacctca acctcttcaa gtgcacgacg gtactggtgg aaaacgtgga 420
gatcactgcg ccggtgaaca gcccacaacac tgacggcatc cacat 465
  
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<210> 5896
 <211> 447
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-A6

 <400> 5896

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ttcgttggag cattttgtca aatgacttct catgcagctc ctagcttttc agttaagcat 120
ctctgtctat tggaattcgc ccaatgatg tgcttggggt ttgttttgat tgatggacct 180
taaagctgaa gcattaatgc atgaacttgc taaatggatg gagcaacagg catagaagaa 240
atccacaacc aatttttctt ggctgcgcca tcttccgctg acagtaactc tatacaacag 300
cctgctaagg tacgtaagag tgatgataat gttacttaaa ggaggccaca acttgcacca 360
aatatatggg catgtgcaac ggcaacttat gtaaactggt tctaggtgat gctgatgaat 420
catgtaagga tggagcataa ctcacca 447
  
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<210> 5897
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-A8

<400> 5897

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 tggactgtga ccaatacgac ggcgggtgca accgcgggtc ctttcacagg gcctacaatt 120
 ggattgtgga gaatggcggc cttaccacgg cagcggatta cccatacacg gcggtgaggg 180
 gcgcctgcaa ccgcgccaag tccgcccatac acaccgtcaa gatccttggc ggcggcgtga 240
 tcccgcccag gaacgagccc gaaatgcagg tcgccgtctc cgggcagccc atcggcgtgg 300
 ctatcgaggt cggcagcggc atgcagttct acaagagcgg cgtctactcg ggccccctgcg 360
 ggacaaatct tgctcacgcc gtcaccatcg tcggctacgg cgtcgatgcc cctactgggg 420
 ccaaatactg gctcgtcaag aactca 446

<210> 5898
 <211> 301
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-B11

<400> 5898

gcgtatgaca ttactacatc ctaaagttag tcgtattaaa cggtttagcg gcgaacgaga 60
 caatttgtgg ccatccacgt gattggaatt tccatttgta ggctttcaat agcaccacgg 120
 tatgctagag ataacagttg gaggctttca gtgatagttt gtcttgcaat ggggacataa 180
 tatttctagt gagtaaaaga cggacgtggg agagaggaat cagcgcagag gagatcggcg 240
 agtaaaaggg cagtagaagt aaagaaaaaa agccggccgc tccacagggt ccaaccttag 300
 g 301

<210> 5899
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-B2

<400> 5899

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aagtatgacg gtccagagtc catccggagt ggagtgaatg cagccatcaa ggataagttc 120
cccgacatca cgaacgtggt gttcaccag tgatctacaa gtagcctggc cggcttgatg 180
ccatcccagt gactaagtg gcgacatgta cgaaatgcag cgagattctg tatcatctac 240
acacgagttt cgatgtatcg tttgggtata caaagttgca gcacacacaa aactacaat 300
gggaaatgac atggaataat tcttgccat tggaagccgc ctccagaact caccatccta 360
cgtggggccgc gtaaggttct tcaagaagga actcctcaaa gaacgggact tt 412

<210> 5900

<211> 441

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-038-Q1-E1-B4

<400> 5900

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gaagaccgga aggaaccctt taccggcaaa aggtgtgtgg caatttggtc caciaagtgg 120
atgaggtgat cctggctctc atcacaatcg gctgcttgc gctccaacct gctcccctga 180
cggcctatcg tatctctgc tttctacagc aatgtcgctg atgctcagag catctttgtg 240
gtggacgcct gccgcttttg aaggctccatg aactcctgca cataatgaag gagcatggga 300
ctcctctcct ccttgagctc acggagctcc acgtccttgg ccctatgctc cgcaccttg 360
gcctgcagct cctgtgtctg gcgcttcacc tcaaattccg tgatctgatg tgccgcatg 420
gcactaggta gaagcaatgg g 441

<210> 5901

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-B8

<400> 5901

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 actgccatct agcaacgaga agctctggaa tcatggcgtg ttgagacgct aaaagatgca 180
 aaaagtgcatt ctactcggaa ttcattcaaat ttgggcctct ccagtgagga agcacgattg 240
 ttaaagcgag ccctggagtt caactggcat gcgctattgg aggatattgg tctttggatt 300
 tcaccagaag tcccacacac cgagcatgat gacaaacctg agaatgaacc agaagaagaa 360
 gaaataatag ctggtccacc tttgcatcca caatgcaaca ctgagctaca tgccgattat 420
 ggtggtgctg ctgtgagatg gggattaac 449

<210> 5902
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-C10
 <400> 5902

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 aagctcttag atgatgaaaa gaaacccgat atcacgaaac gaccacacac tcctattgga 120
 gatgaggtgg aatgcaagaa gccaaagata gcagaaggct caagggtcca aggagaagaa 180
 cctgaggctg gagggataaa gaattcctcc tgggtctgat gacaggggaa tgcagtaaac 240
 accagaagca tcaaaactat gatctggaac agtatcctga ataaactatt ttctggatta 300
 tgaatgaatt ctgaagcatg gggctataag tgaattatgt aacatggatt tgtaactatg 360
 gtggatgta agttaacgtt ctat 384

<210> 5903
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-C3
 <400> 5903

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aggtgatgga tgcgatgctg caagaactgt ccgcgggcggc tgcggcaggg acgaggaggc 180
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 ccgagcggga ctacatgatg cccaggaagg gctaccccggt gtgggacctc atcgccggag 300
 accggcgggc cgtccgcgca gacgtgcgcg ggtgggcccga cttcaaggac ctgnatacgg 360
 tgctgcttga catcatacac gaatgcgccg cggccgccat gatggaacaa gacggcggc 419

<210> 5904
 <211> 464
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-C4
 <400> 5904

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 actttacttg gggatatatt tttattcgcc acatgatatg tgttttgctt ggagcgcat 180
 tttattttgt tagtttttgc ttgatgttat ttagattaat gttttgcac attaggttca 240
 ataaaaaagt caaggataga ctttgccatg cttattttgc tagtatacat gttggttggt 300
 tgaaaacaga aagtttaccg ctgttgcaa aattccctag aaaagttaga gaatggtcta 360
 acattggata tttttgcata ttaagatgtg ataaatttac tacagtgaga attttagttc 420
 ataatttttg gagttgggta tgtaagatga atcttgcat cctt 464

<210> 5905
 <211> 202
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-C5
 <400> 5905

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 agcgcccgcc ctaaagggtc caagcttact tacgcttgca tgcaacttca tacctcttca 180
 atagtgtcac ctaatttcaa tt 202

<210> 5906
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-C6

 <400> 5906

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tatccaaaca ttaggatggg atcatgatat ttgcaattcg cgtaaggaaa ggtcattgat 180
ccatcagaca tctagattct attgaatttg agcatgtcta tgttattatt cgacataatt 240
gatccacata gttagtattt tgaactccag acaatgcata gctttagcaa tggaatataa 300
acgtgagtat aattcatgtt gtgtgtgtaa agcacattat acatacgaaa gttacacaat 360
gaacattata aatagctagc taggaactag catacatttg aattcaactt aagggtggtt 420
aaaaaattcg aattcaacat gaagtccatt 450
  
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<210> 5907
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-C8

 <400> 5907

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ttcgtgcacg caatcagttg aaatcctcca tccaactcca ccttgatggc tccactgctg 180
ttgttgagga tattggacgc cagcaactca tctatggccg tagaattccc attcctgagc 240
tttttgctag aatagatata gttgatccca gcactattag gcgtgttgca aaccgcttca 300
tctttgacca ggatattgcc atcgtgcca tgggaccaat tcagtctctt ccagactaca 360
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<210> 5908
 <211> 431

<212> DNA
<213> *Triticum aestivum*

<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-D1

<400> 5908

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gataggagta ttaaataatgc agaggcattt agtattcaat gttgaataat aattttgggtg 180
atttgttaca gtagaatatg ataaggtttt gcattggttt atactaacct atctcacgag 240
ttcttggtga gtttggtgtg aatgaagttt ttgataaaaa gaaagaccat gatatgagag 300
gaattaagga gacgcaaaag ttcaagcttg gggatgccca aggcacccca agatattatt 360
tcaagaagtc tcaagcatct aagattgggg atgccccggg aggcacnca cctttcttct 420
tcaacaacta t 431
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<210> 5909
<211> 439
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: LIB104-038-Q1-E1-D11

<400> 5909

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gaaagcttgt tactttatca gatcaagata tattggagat ggttttcttc ccagtcgtta 120
atgaggcatg cagggtcatg gatgaaaatg tggatgatcag ggctgctgat cttgatattg 180
catctgtcct tgggatgggc tttcccaagt acaggggtgg cctcatcttc tgggctgata 240
cggttggagc atcctatata cattcaaagc ttagcaagtg ggctgaaatt tacggtgact 300
tcttcaaacc atcatcatac ttggaggaga gagcgaaaag cggccgacca ctgggcgcgc 360
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tttttgcttg aacagcatc 439
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<210> 5910
<211> 462
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-038-Q1-E1-D2

<400> 5910

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caagacttac  atcagaacta  gctacatatg  catcgggtatc  aacaaggggg  gtggtggagt  180
ttaactgcag  caagccagct  ttgactcagt  ggctaacctg  aactacgact  gcaagcaact  240
cttttgaggt  ggcgcacacg  agtccacata  ttcaccattc  aatacaacac  tatggaaccg  300
ctcccgctctc  cctacgagaa  ggccatccat  agcactcaca  cttatcttgc  gagttttaga  360
ctatccactt  tcacttgtct  atgaactatg  caaggggtcc  aagtttcaca  tccgaagaat  420
ccggctattc  gaatagataa  tgataaccct  gcacgggtgt  ac                               462
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<210> 5911

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D5

<400> 5911

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ttatgccatc  aaatctatcg  tagacacata  gaaagatcaa  agaaatgtga  gagaagaaca  120
tgaacgacat  gagaacacat  gggaatgtga  gacatccggg  gtagtcgtgg  aacgagttgt  180
cattctggca  cttgacggca  ccaaactact  agatatcgag  agagcaagga  tactgtggct  240
tcatttattt  tagctgatcg  tatattcgca  ttcattctcg  ttgtcttttt  gcaatccata  300
gctcgagagt  tcgaaactaa  attctagggc  acaagaccct  attcttcctc  cttttatggg  360
tgggcacgaa  taattttctaa  ttctagcaca  tcacaatcat  aatcttctag  catattcatt  420
gttggcattg  tgtcatccg                               439
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<210> 5912

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D6

<400> 5912

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tgatcccctc caccaagtat gtccacatgc atgtgcccaa cgatggaaac ttcccaggca 180
cacttccaac ccagccaggg gtattttcat ccaaaactcc aaccgtgcac tacattgtgg 240
aactttgcta gaaaaataag gcgcactaca tagaggaatg gagggaataa ggtaacatgt 300
gtttagacg acattaagtc ttggattatg tgttaagtct tcgaaaaata ttcttctat 360
gcgccatggg ttctcaata tggcaacaca tacctgtac ctcggtaga gctgatgtca 420
cgcccgata attaagctac agtag 445

<210> 5913

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D7

<400> 5913

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aaccagagt acaacacaac acttgaatta attctgtctg aatcttcagt taactagaaa 120
ttctagccac taaatcaagc tcacgtaagc gaccagctag ccctacgcaa cgctatcttc 180
tccatcgttg tgtttagttc gtgcctgcgt tttagctgat ggatctttca cgttttgatg 240
aagctgctgg acgaccgtg cgcccgctg aacaggcggc gcggccccgg cgtcgtgaca 300
gccgcgtacg atttctcta cctgcccatg gatttcaggt gattcatttc atgctcgctc 360
ttctctcacg gtttgacagg gtgatttctt gcctgcattt tttcttgtgc cgtaccgga 420
cagaatagtc gcactatcat c 441

<210> 5914

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D8

<400> 5914

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gggcggccgg acgccatcat gacctgacg gtgaagcgcg acaacatctg cagcttcac 120
tcggagacca accccgggca cgtgcggctg tgggagacca aggacggcca gctgacgatg 180
gtggcgacg acctgaagcc gcgggcggtg ctgacgtgcc cggagaagaa gatgatccag 240
caggtggtgt tcgccagcta cgggaacccg ctggggatct gcggcaacta cacgtttggc 300
aactgccaca cgccaaggc caaggagatt gtggagaagg cgtgcgtggg gaagaggagc 360
tgcgtgctgg ccgtgtcgca cgaggtgtgc ggcggggacc tcaactgcc gggcaccacg 420
gccacgctgg ccgtgcaggc 440

<210> 5915

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E1

<400> 5915

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atgacgcctt tccttcaccc gagccggacc cagatgacgc ccttccttca tccgagccgg 180
accagatga tgcggtccgt gcgtcgtcag aggcgcggga acatcaggcg atggggccac 240
gtacaccgtt atcgagatc cacgtgctc ctccggcgtc tgcgtgacaa gaacacctca 300
gcgtacggcc gtgacagtca gcattggccg accaatcgat atgtaagcgc gatcaccagg 360
tgcggaggga ttagcgcatg gccgcgtgct aatgggtgta cacgtattat ttat 414

<210> 5916

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E11

<400> 5916

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gaaaagggca cgctcgtaaat ctgcgaggtt gtaatgtccc tcccgagcta acacattcat 120
gacatacatg gattgcacga aacaggggaat ttgactagat gctgattatg tagcaaaacg 180
atcacatctg cgtgtggaag taactgaaac tattgcatag aaaaccatgt ctcaactcgg 240
gtcatgggac ggtagcgcta tacgatccac gcaaaagttg acgaccagcc aatttacaac 300
accgactaaa gtgtaaggga aaggcattc 329

<210> 5917
<211> 150
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-E7
<400> 5917

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tttcttcggg acatatagac gtcctcgtag taagctttca aagtatgggg aacttggcag 120
cagatagtac gtaggaaaga ttgaagtacc 150

<210> 5918
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-F10
<400> 5918

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ttatgcctat gattgaccag ggtgagaaag atgacaagat catagctgtg tgtgctgatg 180
atcctgagta ccgtcacttc agagacatca gtgaacttcc cccgcacgcg cttcaggaga 240
tccgtcgctt ctttgaagac tacaagaaga atgagaacaa ggagggttgca gtgaatgatt 300
tcctcccagc agaagatgcc atcaacgcaa tcaagtactc gatggacctc tacggttcgt 360
acatcatgga gggcttaagg aagtgatctc cagttgggtg actgcagatg ctacgctatc 420
cgccctacgg cttatcaata g 441

<210> 5919
 <211> 462
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F12

<400> 5919

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 atgatggagc tggctgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa acaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gcgccttaaa 300
 ggataaaagt ttaacaagcg ggaaatgaaa tcaaaaaact cttttaaggg ggccccaaaa 360
 ttcaattaaa ggggcctttt tttaaaacag tagtatgggg aaaaccgggg ggttacccaa 420
 tttaaccccc ttggaaaaaa aaccctttt ccaaaggggg gg 462

<210> 5920
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-F2

<400> 5920

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 gctcgccgga tgcggttttg gctcaagctg cctccgcttg ttggctgcct tgccatccat 120
 ctcaaccggc ggtgacggcg tgtacacatg tgctggtgtg tgttgtgtgc tgagtgtgcg 180
 cgagtgcgtc cttctgtgca tgccactgcg cagtgtgtaa ttgtgtgcca gtgcatcctt 240
 cacgcggaag aagtgtgtcc tcaatgcgcc ctcaatttac taacgtgcac ggtgatatct 300
 actacgcaac cttctccttg tagacgttgt tgggcctcca agtgcaaaag tttgtaagac 360
 agtagcaaat ttccctcaag tggatgacct aaggtttatc aatccgtggg aagtgtanga 420
 ataagatggg ctatctcaaa caaccctgca accaaataac 460

<210> 5921

<211> 462
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-F3

<400> 5921

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 aatctcatgt aggcattcatc atacgtattc aagccagtcc ggaagggtcga tcccaatggg 120
 ggagaagggg tctaccggaa tggccgcact gctgtggatg ttgtgcaaaa tgatgggtgga 180
 tccggtcggg gatatgcaag ccaatcttca ttggcacoga cccagaccta tatataagac 240
 ggcgggcagc agagaaatta cgggatggaa atggaataac taagtactac ctgatcanac 300
 tccattactg acctgctcat cggacaatat ccgactacct ctcaacgtcg gcaactctag 360
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 aagaaccttc tctctgagga cgtatggaag accaacaagc at 462

<210> 5922
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F5

<400> 5922

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 caatttttct gatagactag gagctatatc ttcgcgaaac ataaaccgcc gcaaagtaag 120
 ctttcaagaa atggggacag tggcaccaaa tagtacttgg aaaacattga ggtaccagga 180
 tcagttcgtg cattcaccag caaggaaaag atattatcca taccaccccg agcattacta 240
 cagtccccac acaccagcta tgaggagtcc cctggcgcca agtaaaacgc ctttcacatc 300
 gacaaccgcg aggcgcaaga tgatcttctg gaccgaggca gaggaggtgg ctctgagggg 360
 ggcagtggcg aagtttgccc cgaatgggga ggccgcgaag gagaagaggt ccatctcgtg 420
 ggtgcgcata cacgagtact gc 442

<210> 5923
 <211> 438

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F6

<400> 5923

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aaaactagca aaaaatagca actggcactt ggcactgggt ccatagggtta gtcccaaaaa 120
atgatataaa gttgctataa aatgattgta aaacatccaa gaatgataaa ataacaggat 180
gaatacttca tatattatag atacgttgga gacatatcag catccccaaag cttaatcct 240
actcgtcctc gagtaggtaa atgataaaag aaataattta tgaagtgcga ttgctagcaa 300
agtgcataag tttgatcaat gataatttca attacttttc ctagcatcat aacaacaatt 360
ctttcttatg aaagtctca tgttatagta gcaaccaatt cacatgtaa ggttcaaaca 420
atgaattctc ttgaaact 438

<210> 5924
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F7

<400> 5924

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tttcttacca attgtccaag aaaaagctac aaaaagttag acctattcat cttttttgtc 120
caagccagtc tgagcctttg caattttctt ttcattgttt gcattattga attatcggtt 180
gcatcgtcgt gtcgagttgc tggctctagt gtctagttcg tttagagttt cgagttctgt 240
tcacattagt cacatgcgcg ctgcatcgtt atcctttccg ctgtccacca ccccatccat 300
caatttcac cacgtgctac ccatagttca ttgtcacaat catagttgag gtcgttcaca 360
tcttcgcttg atccaatctg catcttatct agtttgtctt ggaaagaggg agagaaaaaa 420
agacag 426

<210> 5925
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F8

<400> 5925

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gtgctatagg aagttataca tatgcatcat ttttgtccag accaatctga gccattgcaa 120
gtttcttttc attgtatgca tgacagaatt atcgggttgca tcgtcatgtc ctgttgctgc 180
tcttatgata tagctcgatt acaagttcct aattctgttc agactactca tatgttacag 240
cagcatcgtg atcctttatg atgtgcaata 270

<210> 5926

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G10

<400> 5926

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tttactacc atgactatac ccgacgcaa gagagctacc gtgaacgtca ttgcaaaaat 120
gagccatggg tacacgctaa gcatgtgaca caatgctttt tcataaccga cccaagcaat 180
cccagccgtg ttgtcgtgag gagaggcaaa aggaacatca ttggaatgga tggagtctcc 240
aacgaggagg actacgacca gtacggcaac cctatgaggg aagatgacga tgacgatgaa 300
gtatacgtca aaagaagaat cagtactaca ttacctaaga aagatcatac tccatggaaa 360
aggaaaagcc acaatgaagg 380

<210> 5927

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G11

<400> 5927

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ggcaagcact ttgtgttgga gtgataacct gcaagtatac gggatcgcaa cagttttcga 120
aaagtaagag tgtcgaacct aacgaggagc taaaggtaga ataaatattc cctcaagttc 180

tatcgaccac cgatacaact ctacgcacgc ttgacgttcg ctttacctag aacaagtatg 240
aaactagaag tactttgtag gtgtgatagg acagatttgc aagataataa agagcacgta 300
aacataaact aggggctgtt tagataaaga agcaataaat tacatattag tagagagctt 360
tttgttacga, gaaaagttat ttgtccaagg caatcgataa ctagaccgg 409

<210> 5928
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-G12
<400> 5928

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ggggcactac cagtacttcc tctgtgtcac tggagaccac tctactcctg ttgagtacgg 120
agaccacagc tttgaacctg tcccgtttgc aatatgccgt ctgagagatt tcgtgggagc 180
gattggggag ggcaatgtga tgaatacccc ccttgacgat ttcccgctgc ctttggttaa 240
atccggagaa gatttaactg atgattcaga accagcggaa cacaagcctg gggagcgtaa 300
agcttttagc ggcgatacag tgtgtgaata caccgagatt gctgctgcaa ggggctgcct 360
tgggcggttc cctggaagtg agatgatggg catcatcaag aagttcatga aagcaaagaa 420
cgattaac 428

<210> 5929
<211> 444
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-G3
<400> 5929

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gctaattctc gtctgacaaa gtctcgtcta ctactacact acttgattaa tcaaacaaaa 120
aatataaaaa aatcaatacg aattaccgtg taaaatccaa cggatatagga gttagatgag 180
acatagttat ttctcgagct agactagagc tagacacacc cctttactgt atatattctt 240
tgggtgacgt tttgtttttg aagtctgatc ttactcagc tcaactattg gcatctgggt 300

gtgggccggt ttagtcattt ctctgccag tgtcaattta ctgttacctt taagccccggg 360
 cccgtgtgat gaatggtagt gtatcctgga acctctctgt tgttcacatg catttttctt 420
 gagatataaa tattgataaa cttt 444

<210> 5930
 <211> 343
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-G5
 <400> 5930

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 gggcacttgg ttctaagacg cgtcctccga attgatcaat actactggcg agtggctgtt 120
 gtcgttgttg ttgtaacctg taagtccacc attatgaagc ttctgcttgt tttacgtgtc 180
 tgccttgtct atatgtgtaa ggctacaagg aacgaaatca atgtacatat gttacccta 240
 tgttaaataa agcagggttt gccactctaa aaaaaataaa aaatataaaa aaaaaaaaaa 300
 aaaaaaaaaa aaataaaaat caatattcaa aaaaaacta aaa 343

<210> 5931
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-G6
 <400> 5931

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 ctgatatcta tgctaattgct ggtggtgtga tcgttagcta ttttgagtgg gttcagaaca 120
 ttcaaggatt catgtgggaa gaagaaaagg tgaacatgga gctccataag tacatgaaca 180
 gcgcgttcca gaacatcaag gccatgtgca agtctcaaga ttgcaacctt aggatgggag 240
 cattcacctt gggagtgaac cgggttgctc gcgccaccat cttgaggggc tgggaggcat 300
 gaggaattcc agattcctta tcgaataatc catgccccgac accgtggtgg atgacagttc 360
 ttatatccac catcattgat ttggtaaatt catcataagt tgccggcatg ccaggagtcc 420

aattgaaata attttcgggtg tacatgac

448

<210> 5932

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G7

<400> 5932

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gatgaaacta tcgatttcta ttagtggatt aagccatgga gaagttatat tatagtagct 120

acaatgcaaa catcaaatat gaattgggtt gcaacagtac ttagagtagc gatttgcttc 180

attgtactaa tgatcttacc aaactttcta ttaagttttg tgtgattgat gttttcaagt 240

tttcggagag atcacgatgg atgaaggaat aaggagtggc aagagcctaa gattggggat 300

gcccaggca caacaagtaa atattcaagg actcccaagc aaccaagctt ggggatgccc 360

cggaaggcat tccctctttc ttctaacgat catcggtaat ttcacttgga gctatatTTT 420

attcgtcaca tgatatgcgt aaatc 445

<210> 5933

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H1

<400> 5933

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gaaggacaag ctctgtacac acaggtatac tgtcatcgaa agaaagacag caaacacgta 120

catatgacgt ctcaagcccc acggacaagc tctgtacggg cgaacctgag cgaaagatca 180

gttatactgg agatggatca tctcggtccc agaacccttg ctgacaattg tctcagcaca 240

ccgatcgatg ttcttgccgt ctgtgactta tactgtactc gttgtgccgg tctgtttctg 300

tatcctgcgc aagtataatg cgattttgga tggctcctta ttatacatgt gcaaaatatg 360

gcatacttgg cgtaacagg tgcacacac cagtcatagt tgttctttct ttgttgttgt 420

ctcagctca 429

<210> 5934
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-H10

 <400> 5934

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 aggccaaagga ggccgagcgc agggaggccg aggagcgcaa ggccgaggag gaggagggcg 120
 gggccgcctg ggccaagaac aagcacgtgt atcagttctg atcgatcgcc gccggggcgcc 180
 gcgcccggcc gtgcatctcg cggcagatgg tgttctgaac ggaaaaagtt cgcgagagat 240
 gatggtgtgc atgtatccac cgctcaccgt cacttgaga ttcgtgctac gttttcttgt 300
 tttgtcaaaa gcttgtcttg tttcagagtg ttgcatgatg tttctctttt taaaaattat 360
 cgtgatgttt cgatgtgtat atcagtaaaa taagagagta ctgagttcaa ataaaaatta 420
 aaattagaga gtactcgac 439

<210> 5935
 <211> 446
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-H7

 <400> 5935

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 gcactggaag ggcaaggaca ccgacgtgca ggtgagcgag tacctgcccc ggggtgtgtc 180
 gtacatcaac gtgatgcggc ggagcaagtt ctgcctgtgc ccagcgggc acgaggtggc 240
 cagccccagg gtggtggtgg aggccatcta cctcgagtgc gtgccggtgg tcattggcga 300
 cgactacgtg ctgcccttca gcgacgtgct caactggccc gccttctcgg tcggggtcgc 360
 catggcggac atacccaacc tcaagaccat cctcgccgcc atgtcgccgc ggcagtacat 420
 acggatgcag cgccgggtga ggaccg 446

<210> 5936

<211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-H9
 <400> 5936

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 acaagtgtta atttcactaa gtctgaaatc tgtttgccaa atgcattttt tccatgcttg 180
 tttgaacctg ttaatggatg aattggccgt agctcagtgc tagacttttg ttaagcatca 240
 tgaatggatt cttgccatgt attttgttgc catgtttggg tgttgtagca tgttcatctt 300
 gttgcattta gatggctact tgctgtaa atcgcagaacgt ggtcatattg gaatcgcttg 360
 ccatttcgaa accgtaactc cgattccggc attctttata tcgttttcaa gcgatttcat 420
 ctcatatttc cagtgggtaca c 441

<210> 5937
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-B6
 <400> 5937

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 cggagtacga ccgtgggggc aacaccttct ccccgagggg gcggctgttc caggctcgagt 180
 acgccattga ggccatcaag ttggggtcca ctgcaatcgg cttgatgact aaggatgggtg 240
 ttgtactggc tgttgagaaa cgtgtcacct caccgctgct ggaaccaagc agtgtggaga 300
 aaatcatgga aattgatgag catgtcggct gtgccatgag tggccttatt gctgacgcca 360
 gaacactggg tgagcatgct cgtgttgaga ctcagaatca taggttctca tatggggagc 420
 caatgacag 429

<210> 5938
 <211> 370
 <212> DNA

<400> 5940

gggccagaat tccccgggtcg acgggggacgt ttgagatttt gagttcatga atttttccgt 60
ttcctaaggt gtttcgggcta cttagggacg agtctccatc atcttggttt ctacatcaag 120
aacaccgcta ttcattcatcg tcggacggta acctccatat catcttggtta tcgtggtaac 180
cctccattgt atattcccct tgccattgca ttgttaacct ctageccatt ttgcgttact 240
tgcctatcga gactagccat ttgagtattg ccggcaacgt tacttggtgca cattactgat 300
catacttccc atagcataca taccatatca tcgtgggtgca tatattggta tcatatcttg 360
tgtcacaagt ttgttcccgc atatacacia ttgctatctt ggtttggtgca ttgtgcaaag 420
ttggccatac acaataa 437

<210> 5941

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-D6

<400> 5941

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acaattecta gggttatggga ctggatctcc atttccaaga ttcttagctg ataagtatat 120
tgtgcggaat aatctctact gaatgacaga tccaagcaat ctggatacgc catgggacaa 180
agttgaagct ttgtacatca cttctctacc tgtttattaa tgtgtcttca tgtttggcag 240
tgatctgggt ttccatgtac ttgatagatg cattccttat ctttatgtgt tccatctacg 300
tagatgtgtt tctgcccata aatgtattta tgagcttgct ccgtttttac tgctttccta 360
cgtcaatttg aaaagtaccc ttatttcacc taataagggc tatacatgca tttagacgag 420
tgcacatttt ctataaacat aagcattgtc 450

<210> 5942

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-D8

<400> 5942

ggtccaggat tccccgggtcg acgggggagg atgacgttgg gttgctgttc agatacatta 60
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 agacgggatt ccactatcga gacaagagcc ctctagcaa ttatgttgtc aatatttcgt 180
 caaacatgca gatttttcca ccagaagatt ggctgatcgc gtcgtctgta ccatcaaagt 240
 tttcaccaga tgctattcag aagggtgctaa atgaattgac tacagagaat gttagaatat 300
 tctgggagtc aaaattatth gaagggcata cagactttac agaaccttgg tatggtacgt 360
 catattgtgt tgaagcagtg cctccttcca ttatgcagaa atgggtagaa aatgctccca 420
 acgaagattt acacctgcca aaacctaata tcttc 455

<210> 5943
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-E1

 <400> 5943

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 aaggcttgag gggtcagtac aacgggcaaa gctgtaataa tcacttggtg gtactttttt 120
 cctggcattt ggtcctctga ttattgtcac ggtttctcta tttgctggtc tttatctgta 180
 ttttgggcaa agctttgtac acgacgggag caagaaacca gtcgcgccac caccatacat 240
 tgatccatat gagctactgg aagatgatag gatctcccg cctcccttg atgtgttctg 300
 aatctccacg acaaaaagga tagtaatttg tagatagctc aaataatttt cttgttttac 360
 tagatatgta cctgtaaattg caatagctgt anactgttat tatccggaaa t 411

<210> 5944
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-039-Q1-E1-E10

 <400> 5944

gggacgacgg gccaccatca attactgcgg tgctagcttc agactcgatc cagagatacc 60

tatgttgact atcgctatgt agagagggtta tatgctgaga gtgtacatta tgtgtcactc 120
 actcgtgatg ttctggaatg acggttctgt cgtatcacag agttctgcgt cataagtatc 180
 ctccgagtga gcctttaact gatcatagtt caggtgatgt tgatcttgaa agagctagac 240
 actctgaaac gtcccaatag tgaaagggat g 271

<210> 5945
 <211> 72
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-E3

<400> 5945

caaaagggttc aagcctaagt tacccttgaa ggcaacgtca tactcctcca atatggtcac 60
 caaaattcaa tt 72

<210> 5946
 <211> 355
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-E5

<400> 5946

ggtcgagaat tccccgggtcg acggggaagt tggtgggagg tggctcgcca aattcaagtc 60
 tgtcacctaa gacggaggac gtgctgaacg acctggacgc tgcagatcaa catggacatg 120
 gacttttcac tttctagagt aacacactga catggcatag tagtaggcga cggttctttc 180
 attataacgg cttataatta tcatcagact catactatta tgcaaagct tcctatgatt 240
 tcattgggta aattgtataa ttgtgacagg ttcatatatc aatgtcaaga aagagctgag 300
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacggccgct ctaaaggatc caagc 355

<210> 5947
 <211> 445
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-E6

<400> 5947

gggccaggat tccccgggtcg acgggtctcc aaactacact ataacagaga agtttgcact 60
tattatggat tatattgatg gggtgccttt taccgttgca catgatgatt ttgatgaata 120
taacatgcat gtgcttgctg ctctacttg caattattat gagagaggaa ctacatctcc 180
acctctttat gtttccaaca cgataaaatt gcaagaaact gcttatgcta tgtattgtcc 240
tttacttgat gtgcatgaat tggtctttta tgatatgctg atgcataggc agagagttag 300
acttcgtcat tgcattgatat actttgcttt gtgctcataa ctaaatgaca aatcattgtt 360
aattaaaatt ggctttgaca taccttgga tccgggtgga ttcgttactt gagcacttta 420
tgcctagctt aatggcctta aagaa 445

<210> 5948
<211> 451
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-E7
<400> 5948

gggccagaat tccccgggtcg acgggtatct ttttgagaac ggtggtgaat tattttgtag 60
aaattgctag tctctcatgc ttcaattata tctttttgag agtcttttat aacagcatgg 120
tattttctat ggttataaat tggctcctaga atggtaggca tccaagttgg gtataataaa 180
aactatcata ggaagtgaat tggatgctat gatcaatttg atacttgata attgttttaa 240
gatatggagg tagtgatatt aaagtcatgc tagttgggtg attatgaatt taaagaatgc 300
ttgtgttgaa gtttaggaagt cccgtagcat gcacgtatgg ttaaagttgt gtaacaaatt 360
tgaaacagga agtgtacctg gcttgtgcat ccttatgact ggcggtcggg gacgagtgat 420
ggtcttttcc tacantctac cccctagga g 451

<210> 5949
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-E8
<400> 5949

gggccagaat tccccgggtcg acggggtggt atcagttttt aggttgctcg gtgagaattt 60

ccagttttcc tagattagat ttattttctt acctattgtc caagaaaaat ccacaaaaaa 120
gagttagatc gattcatcct tgggtccaagc cagtctgagc ctttgcaatt ttcttttcat 180
tgcttgcata gttgaattat cgggttgcatc gtcgtgtcga gttgctggtc ttagtgtcta 240
gttccttttag agttttgagt tctgttcaca ttagtcacgc agccgctgca tcattatccc 300
atctgctgtc caccacccca tccatgaatt tccaccatgt gttacgcact gtttattgtc 360
ataattatag ttgaggtcac tcacatcgtc atctgatcga atctgcatct tatctagttt 420
gtcttggaag gagggagata aagaag 446

<210> 5950
<211> 469
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-F11
<400> 5950

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aaataaagaa tgtgttcatt acagtacctt atgtggtggt tttgcgttct tgcactaacg 120
gtgcttatga gatttcctgt tgagttttgt gttgtgaatt tttcaagttt tgggtaaaga 180
tttgatggac tatggaataa ggagtggcaa gagcctaatac ttgggggatgc ccatggaacc 240
ccaagatatt caagaatagc caaaggccta agcttgggga tgccccggga aggcaccccc 300
tctttcgtct tggtttatcg ataactttac ttggagctat atttttattc gccacatgat 360
atgtgttttg cttggagcgt cttgtatgat attagtaatt tccttttagt ttaccacaat 420
catccttggg gtacacacct tttgggagaa atccacttga ttggaattt 469

<210> 5951
<211> 436
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-F2
<400> 5951

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ngatgtctat acttattggt ttgatcaata gatttgaggc cttctgcaaa caataaaact 120
 aaaataggtc attgatgcat ggtggccgtc ggagagtacc tcataataaa ggaaaataat 180
 tccgtctttg aaccaaagct aaattatcgt atttcggatt gacgtaaaca taaggaaata 240
 gtcggtatct gaaagtacca ttcttctccc gagctcaaat gcacttgtca tgaacagtan 300
 aaaaataaaa attaagttaa aatataaaat tttctgattt ttcttgacag taaacattgt 360
 tgaatgtttt acatacgtgc aattttcatg aagaaaaaac attcccagtg ctctaaaaag 420
 aacaaagctc caacat 436

<210> 5952
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F4
 <400> 5952

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 caaacatgtc cgtccattta tcgacctttt ttctattgag ataacttcaa aaaatgtaga 120
 acttatcaaa aacacaaaca actttgtatg gtgccttgca ttgttcatac aaggatcatga 180
 acttttgagg gggggggggg attttaaaag atgtcaagaa acaaagtgtc ctcagactga 240
 gtcttctggc ctaccgggac accctccgtt gaatattagc tattttttaga cattactaaa 300
 atgatcccaa cttttacaag cagggtgggca tgtccatggt aagcaccaat gtgaggtttg 360
 aacgatatct gacacgtct gtaagttgag atagtttagc catttatcac cattttgata 420
 gagaaaactc cagagaatg 439

<210> 5953
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F7
 <400> 5953

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 gacagggggc gcgcctagta gggggagggg gggcgcccc ctatatcccg ggctcctcga 120

gtatcttctg acatggactc caagtctcca ggatgataat cttccaaaaa aatcacgttg 180
ctgaagggttt cattccgttt ggactccgtt tgatattcct tttcttcgaa atactgaaac 240
atgcaataaa acagcaatat ggttgggcct ccggttaata ggtagtcca aaagtaatat 300
aaaagtgtat aataaagccc ataatcattc aaaacagata ataaaatagc atgaatgctt 360
cataaattat agatacgttg gagacgtatc aaacaatcaa aaattataga t 411

<210> 5954
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-F8
<400> 5954

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agttagggtg tgccacagaa tgcaatgctc cttcatcat catcatcatc ataatgtgat 120
cagagctgag acctgatcga tggcacatat tagtacgtag atcagtactc ctgctcacac 180
aagtccagta atgagatgcc tcggttgctt cgcttcaaaa aaaacaaaca acaaaaaaaaa 240
aaaaaaagat gaaaaaaagg taaaaaagtt aaaaaaagga ataataaaaa aatgtaaaat 300
aaagccacaa taatcattca aaatagacgg ttcagctagc atgaatgctt cagtcgatta 360
tagatacctt ggagacctag cacacaatca ggtattacag atacgacggg aacgtatcag 420
catcccaaaa g 431

<210> 5955
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-G5
<400> 5955

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tgtggagcct gcagctgggtg gagagcagac tgtcattgag gctgatgttg tccttgatc 120
tgctggcaga gtcccataca ctgctgggtat tgggctggac gccattgggtg ttgagacaga 180
caagggcgga agggtccttg ttgacaatcg ctttatgaca aatgttaagg gcgtatacgc 240

gattggagat gcgatacctg gaccgatgct tgcacacaag gctgaggagg atggtgttgc 300
atgtgttgaa tttatcgcg ggaaggaggg ccatgttgac tatgacactg tacctggcgt 360
ggtgtacaca caccagagg tggcctccgt tggcaagacg gaggaacaag tcaaggcatc 420
tggtgtagcc tac 433

<210> 5956
<211> 457
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-G6
<400> 5956

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ataaaaataa cagtaaagaa gaccaagtta acatatgtat caggttgcggt ttacctgatc 120
agaagaaaca ggcagggttta caatgttttg tgttgacacat tgctactttg gtaccttgat 180
gcgaagtaat aatgtcttta agctttatta gcaccggaat aacagcaaca aaagacagtt 240
tttaccactg cacttgacaga gttctctgaa cttctgataa ccagacatca ggggttctcta 300
aaagaacaga cattagctaa cataattcag cacaagaata acagttcaaa atgccaaaag 360
agtattagta caccataagc aagtgttggtg tcgttagcag cgtcgaagtt tctatttctg 420
aacttgacaga acttcattgt catgtaattc agattga 457

<210> 5957
<211> 453
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-G7
<400> 5957

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acttcaatgt catggctcctt ggccccgcgc agtctcccta cgaagggtgga gtcttcaagc 120
ttgaactttt cttaccogag gaatatccga tggctgctcc taaagttagg tttctcacia 180
aaatatacca tcccaacatt gacaagcttg gtagaatatg cctcgacatc ctaaaggaca 240
agtggagtcc agctcttcag atacgcactg ttcttctgag cattcaggca ctgctgagcg 300

ccccaacc agatgacct ctctcagaaa acgtcgcaaa aactggaaa tccaatgaag 360
ctgaagctgt tgagacagcg aaggaatgga ctgctatgta tgccagtggc gcatgacagg 420
ctaacgctgt tatggatgta ataactgt gtc 453

<210> 5958
<211> 464
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-G8
<400> 5958

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cctaaccag gactccctca gtagccctg aaccaggctt caatgacgat ggtccgacg 120
cgcagattgt ctccgcat gcaaggcggg ttctctctcc gaatacttca tagaagattt 180
tgaacacgag gatcgtgtct ggctctgcaa aacaagttcc acatacaacc gtagagagaa 240
taatattttc acaaattctaa tctgccgacg cattctgcag tgtgacatca caccacagcc 300
aggttaccat tcaaactggt ttccacaacc aacctcagcg tgtttcgga ggcggtttcc 360
ttggcacgtc ttgtcgaagc agagatcgtg tcccttatt acgggattcc tatcaatacg 420
gacatgggta acccaaccgc gccatcaatt actgtcacat ccct 464

<210> 5959
<211> 394
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-G9
<400> 5959

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ggagctctca agggcctgca gtttcatcat gctctcgcc tacgtcgctt acctcttctt 120
ccagctcaag acgcatcgcc agctcttcga gccgcaggag attgagggcg gcatgatga 180
tgaggaagag gcggtcctcg gctttgggag cgcgctcttc tggctcatcc tcatgaccat 240
cataatcgcc gtgtctctcg agtacgttgt cggcaccatc gagccgacct cgcagtcgtg 300

gggtctctcg gtgagcttca tcagcatcat cctgctcccc atcgttggtta acgcggcgga 360
gcacgccgga gccgtgatct tcgccctgaa gaac 394

<210> 5960
<211> 444
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-H11

<400> 5960

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gccgcccgt cagccgcctg ctgaaccgcc cgctctgcct ctgggcgtgt cctgtcctga 120
tcaaccaagt taggggctcc atcacgcgtc gggatcatgcc cgcacgggtg gtcacggcgc 180
cgggcgttgc ttgaaactgc agccgagtc atctgcctgc tatagctcgg gtcgccgctt 240
gggcgagggg tcgaatgaat cctgtctcga ctataagaat atgcttcctg ctgtgccaga 300
gccgtctgaa gaagttctgt gacccttcgc gtttcgaccg ctgtcggaga gtcgccttcc 360
actgggagag ccgccaatcg tgccgccgca gcaatcatgt tctccaacgg gttagaataa 420
tgaccgggag gtgtcggtac atac 444

<210> 5961
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-H5

<400> 5961

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cagaatacat gcgacagctg aacaatcatc tggatcaaatt gttcgccgtg ttgtgtgagc 120
atatagcact tgtggccact ttgtcatgac tccagcacat gctgagagtt tgatgctaca 180
acaatttata tgagactaca tggtacaata cttcagtact atcgacttat tatgagattg 240
attcagttga cactaaaaac taggttggtt aatgttgcca aaattactgg atatggctcg 300
tggaattca aggatcgctt ttattcatat gtaatcatca tctccgtgaa tgcaagagca 360
attgtgaatg tc 372

<210> 5962
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-H6

 <400> 5962

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 tacttctcgt ctggatagtg tactcaacgc cacacaatac tataccgtat gcaagcctgc 120
 aggtagctag ctagcctgag agagacagac cgaatccgac agatatctca gaagaatttt 180
 ctttacgtgc ccaatatcaa tatgggctct gaaatgaggg taggggcgcg tttgttacct 240
 gcatcgtttt ttgccacttt gcatacttgt cccaactggg cctggctgag catatacagg 300
 ataaaaacca acatctgcat gttgattggt tacctgcatc ncctccagcc taaacgtgct 360
 aaaacgaaag gcctgatgtt tgcttgcgga ctttgtttga ggggaaacac angtcggtt 420
 gtttggttat gtacaggaca gttgtgtggt aacctccta 459

<210> 5963
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-039-Q1-E1-H7

 <400> 5963

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 agacagtatt taccaggggtg gtgtgtggaa ggtcaggggtt gaactcaccg aagcttacct 120
 ttacaaatcc cttccattg gttcaccaa caagatctat caccccaatg tcgatgagat 180
 gtctggttct gtctgcttgg atgtgatcaa tcagacatgg agcccgatgt ttgaccttgt 240
 gaatatcttt gaggtgttcc tgccccagct tctcctgtac ccgaaccctt cggacccctt 300
 gaacggcgag gcggcttcgc tcatgatgcy cgacaagaat gcctatgaaa ataaagtcaa 360
 agaattattgt gagagatatg ccaagcctga agatatatcc cc 402

<210> 5964

<211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A1

<400> 5964

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 acacaaagtg aatatagaag tgttcaagac tgtgaagcgg gaggttcctg gtatatctac 120
 gttcattgta cttagttaag ttgatgttac tgttggtttt tctcgctgcc gccatgccat 180
 gagcaggcga ggcaggcagc ttctcaaact tgtgttggtg taacttgat gatgggagct 240
 taagtacatt actttgtttc gaaaaaaaaa aagagaagag aaaaaaaaaa agcggccgcc 300
 caaaaggttc cagccttact tagccttgca tgcaacttca tagcccttca aaagtgtccc 360
 ccaaattc 368

<210> 5965
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A3

<400> 5965

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 ttcctacaac caataaatt aaatgcatcg gaaatgccgc cttegctctt ttccatctgg 120
 aggggtgccc aaccatcttg tgcctaataa agtatacatg cgtagcttag gcacgcgttt 180
 agtctgtaag ttgcattgtc atcaacatca aaacacttaa ggaggaaaat gcccttccag 240
 taatgtgcct tgtaggcct ttggcgttgg aaccaagtc cccacctata tttcaagata 300
 aagcatgctt atgtttaatt cgtgacaaat atgtgttttc aaattaacgc aacaaaaaga 360
 atgttcaata aaagactaga tgcttttctt cacagcttct tatgccatt ggtccatcaa 420
 tttaccttgt ccaat 435

<210> 5966
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A6

<400> 5966

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gactaatgat caacatttaa cttgacaatg cgtatTTTTT ttagaagaac agggaggctc 120
ctccccggtt ccattatcaa atgaaaccta aagtgtctta catcagctca ctgagaggag 180
cagttcaaag gaaggactgc ggcgaaaccg actcaagttt aatgacaagc ttacagaatc 240
aaaagcggca aagacacggg ccataagcgc ccacacacgc actacatggt ttctaagtgc 300
acttgataat gcgtatgtcc aggtgaacct ccttgagacc cccgtgcacc gagtcgggtg 360
gtaaaggatg gaattgatgc catgtgtttt ccaagtccac attggcgga taatc 415

<210> 5967

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A9

<400> 5967

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ggttatccac ttgagggaaa tttgctactg tcctacaaac ccttgactt gcaggcccaa 120
caacgtctac aagaagaagg ttgtgtagta gacatcaagc tcttttctgg cgccgttgct 180
ggggagggtga gtgcttgaag gtatatcttt agatcttgca atcgaatctt tttgtttctt 240
gttttatcac tagtttagtt tataaaagaa aattacaaaa aaaatggagt taagtttgtc 300
tcatacgctt tgtcttttta atatctttcg tgagtttgat ggaaaggaaa attgtgctca 360
agtt 364

<210> 5968

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B7

<400> 5968

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 cggcatcccc aaggttcccc ctggcccaaa catcacggcg tcgctgcga gctacggcaa 180
 caagtggctg gacgccaaga ccacgtggta cggcaagccg acgggcgccg ggccaagga 240
 caacggcggc gcctgcgggt acaaggaggt ggacaaggcc cccttcacg gcatgacctc 300
 ctgcggaac atccccatct tcaaggatgg ccgcggtgc ggctcctgct ttgagctcaa 360
 gttgcacaag cccggggcct gc 382

<210> 5969
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-B8
 <400> 5969

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 ctctacatg gcctctcacc gctaccttta ccaaaacgtg ttcacacact tagctcacac 180
 atagtaggac atgttcacac gcctctgatt catccccgat gaatcagacc tgactcaact 240
 ctaagcagta gcaggcagga caaacaaca tgaatgagta ggcacatcag ggctcaaaca 300
 actctactc atgctagtgg gtttcatcta tttactgtgg caatgacagg tcatgcaaag 360
 gacaaagggg ttcagctacc gc 382

<210> 5970
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-C6
 <400> 5970

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 tgtgaagttt tcaagttttt gggtaaagat ttgatggatt ttggctgaac ttcgtactta 180
 agtagtcacg gtcgggtgga ccttaagggtg gtggtttgtt ttcttataact aacggagctc 240

atgagatttt ctgttgaagt tttgtgtgt gaagttttca agtttttggg taaagatttg 300
atggattttg gaataaggag tggaaagagc ctaatcttgg ggatgcccaa ggtaccccaa 360
ggtaaaattc aaggacaacc aaaagcctaa gcttggggaa tgcccggaaa gcatccctc 420
tttcgt 426

<210> 5971
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-C8
<400> 5971

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tcgtctgaaa attagcgcag catgtcggcc cagaataaat tctgctgctt tcgttcattg 180
atggacatat tggggccggt tcttgcttga ttggaagatc aagactatgt tgcaactgtt 240
gtttagctgc aactgtgtct catgccaaact cagtctacaa gtctcttggt tagcgtgcc 300
tgccctgtaa aaaaagataa cgaagccggc aggtgctcta ccatttgaat aaggaaagtc 360
tagagaatgt ttacaagata gctgcttcga gaaccgacag aaaaatcaca caaag 415

<210> 5972
<211> 414
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-040-Q1-E1-D1
<400> 5972

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gctccgtact tcgagcaata caagaatatt ttacgctcgg acaaccggg gaagcctgaa 120
tcctggatta gaaaggccca catggagact ttcggcagtt ggttgcgaaa acatttaatg 180
aatgacaatg atgttgaga tcagctgtac atgttggcca agaaaccatc ttcgactata 240
acgactttcc aagggtacga gataaatggg aatacathtt acaccatcgc ccaagataaa 300
aagagcacca accaaaacag tgggtgtccgc tttgatgcag caaccgagaa tgggcaaaag 360

<210> 5975
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-E12

 <400> 5975

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 agcattaagt ctgccctcaa tggatggatca agcctggcat tcacatctgc catcctggac 120
 gttggtggta atactaccag agtggacatt ggccaagcgt accatgcata cacaacggaa 180
 taagaagccc gagcctgcgc attgaccaac gttgttttacg tgtagcacac atcatgcaaa 240
 ccagctcggg gaatttttga gctgatgcgt gctgttatgt ctgttttgct gatgcaccta 300
 gttcctttgc aaagctgtag taacttgttt tgctcgaggg caatacaaca agacctggaa 360
 taaatatctt gttttatttt g 381

<210> 5976
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-E8

 <400> 5976

attcccgggt cgacggggga agataagaag tgcaaagggtg aatccagatt cccagcacag 60
 gtgaggatcc gcattagaag gctttgcaag gccttggaag aggatgcttt caggccagtg 120
 ctgcaccact atgatgggtcc taaattccgc ctcgagctct ccatagcaga gacactgtca 180
 ctgctagacc tgtgcaagac agaagacgcc tgatctgctt cggaacatgt ttgtggttgc 240
 tctgtggttc tttttagtaa atatcatccc tgtaagttgt ggaagatgtt ttcacaatga 300
 tctgtcccggt ccgtcgtcca tgaaagcgca agctgttggt tgggtggtgc atttccccca 360
 gaaaggacct ggtactcgga agaagtaggc ctctaaagat gtgagcctg 409

<210> 5977
 <211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-F11

<400> 5977

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agtgccatgc atggcagttg gcagggaaac ctctcgttg ttcacccttg tgttgacta 120
ctagttcatc tccttgatac aatgctgcat acgtaagtaa aaatattgag tgaacaatgt 180
gctgcattga gaaatctgag taattaagta aaaataagta gcaaaagtat cctgtaatcg 240
actacataat catctgtacg tgtgcagacg atatgcaacg aaccgtcaag cagtgccctg 300
cccacgtacg tacaggtct cataacatg gcgtacgtgc atgactcgtc cggccgggcg 360
acagcc 366

<210> 5978

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F2

<400> 5978

gggtcgacgg cacgatgaaa caatgacatt gtctggctat tcatacaatt ctatacaaga 60
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attgaaagac tatagttaca acgagttgca acaaacaag gaaagagaac tgcatctgat 180
tggtttgtta ggacaaagaa aaagaaatca aagaacaggc totgaagatt agagaactta 240
gcaaagactt tgcagactac ttatatcagg ttaaaagcac ttcttctgag attcaccgcc 300
cagctaaagg aagtgtatgc tcagccaatt ccataagtgg ttgcgagctc caciaagcgg 360
ctatagatat tcataatgca attgctcatc ttggccagtt gagtgaaaac cctatgcaag 420
gtaacaaaaa cacatcggtat tatcca 446

<210> 5979

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F5

<400> 5979

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 cttgatgcaa atgctgggtt tgttactttt gttgttttcc ctccggcatgt tgagggtaga 180
 aagctagaca aaacagtttg gagtttgtta acctccatg cttatgtaag ctaccatgta 240
 aagtgttctg aaggattcat gcacaccagg atgaggcgta gagttgagtc tctgatccag 300
 gctttggacc gtgctaaatc cgatgcagag aagctgaaga agttggtaca tggcgggtct 360
 tttaggagac tgagcatgaa gcacgaaggc aactctaact actgaaggaa gactcaggca 420
 aatatatgaa agttttg 437

<210> 5980
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-F9
 <400> 5980

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 tggacgcgac caatggcaga aaccgcagcg atagcaccac caccacaacc aatggcacca 120
 ccgcaaccag tggaggaaaa cgcaacggcg gcaccgtcac aaccaatggc accaccgcaa 180
 ccaatggcgg aaaacgcaac ggcagcacca ccgcaaccaa tggcggaaag cgcaactgtc 240
 gttgtggtgg tgccaccacc accgccagac ggcaccacga cattcctctg cctcatcctc 300
 gccttcttca tccctccoct cggcggttttc ctcaagtaca aatgtgagat tgaattctgg 360
 atctgcctca tcctaacatt cttggcctac gcgccgggca tcatccaagc cgtccgggtg 420
 atcgtgaagt 430

<210> 5981
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-G1
 <400> 5981

gggtcgaggg cgaatcgaaa gaacaaaaga gcttgcgcaa gaacacgtta accttgcggt 60
 caaagccatc gaatctctcc cagacagtga cgatgaagat gttctgattt caaggcgcg 120

tcttattgat atcacacaga gagtcatcac aaggacaaaa tagcatgatt atacacaggg 180
 tggagaagat aaggcggagt ttcaccacag gtgtagtggt cgccttgga atttttgggc 240
 gccttgggtca ttgcattctt tccattgccc gggttttgtg taacatttga tgagacttca 300
 gggtaaccat tcctgggaat catcctaagt cgcagctgta gtggtttttag ttactgggtgg 360
 cagcaaaatc tgtgtattaa tatcacgatt ggcgattgca cgaagacctg accataagac 420
 tgttaccttt ataatcca 438

<210> 5982
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-H11
 <400> 5982

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 taaaaaatac tcaaaatttt ataataccac cgttacttta actataagaa aaatggctat 120
 ttgtatcaaa tcctaacatt aaacattaaa aatagacggg cgcagcaacg ccgccatcgg 180
 tgatctagtt gtgcactaaa ctactccaat ttccatctta tgggagaatt tcaagctaga 240
 ctcttgctat atgcagattt tgtcttccag gttatggata tcacattgca tgtattcacc 300
 gttgtgggtgt catctaata tactttctaa ctatatatac atcattgaca gttcatatct 360
 tcagttgtgc aatattttac acacaacttg tccttctatt gcgggaaaca ccaatatatc 420
 ttggcaaagc tggactgaga atga 444

<210> 5983
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-H5
 <400> 5983

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 ttagtaccac tcctaccaag tttgtactcc taatactatt atattactag tactaccact 120
 atacaactag tagatactg caccgcacaa catcgtagga acaaaaaacg ggaagatctt 180

gttttgggtg atttatcttt ttttcaatca acgtagtatg aataatatga tgtggggggc 240
 acccatgaag cttatgtggc ttggttgcac ggctacgaaa ggtagagaa aaataaatag 300
 ataatgtgtt tagagtgcac tccactaaat agatacactt tggatccatt gcaacagacc 360
 ggcacatcta tatctatacc ccctataaag tgtgtgaaaa a 401

<210> 5984
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-H7
 <400> 5984

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 cgatggctct cccggcgtcc ggctccaccc tctcccgctt cctctcctcc cgccgcatcc 180
 agcccacgga catcacccgc ctcgccacct ggggcgtctt cgccggcagc gccgccatct 240
 acctcgtcca gccattcgac tggatcaaga agaccttctt tgagaagccc gagccagagg 300
 catgagtgtc atacatggca acttttgatg cctacathtt caggacgatt ctctgagttt 360
 ggatgaccca gccataata tacaagacct tcgtgttccc ttgtttgatt tcccatcca 419

<210> 5985
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-A1
 <400> 5985

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 ggttcttcgc cgacgccgat gaggccaaga ttaataactg ctaccagct gatgatgacg 120
 ataatgcccg gctttgctac acacacggaa taatacggag ttttacgggc ctggacgccc 180
 accccaccag ttaaaatcag ggggggcggt taagtaggtg gagaagtta cttttgcaa 240
 ttacaacact aaaggtcagc gcgtccgtaa aacttgtgog tgtgcggcac gtgtgtctag 300
 catttttgcg ataatgcctg tgtcctgaag tcgcacaagc cttgcttcca agcaacatca 360

cgagtactga acacctttcc t

381

<210> 5986

<211> 87

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A10

<400> 5986

ccctatagtg agtcgtatta cgcaggcagg tatgttctgg tcaactgccgg ctgcgcgatt 60

tcggacgacg gcaatcgatt ggagtcc 87

<210> 5987

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A12

<400> 5987

ggctctagaat tcccgggtcg acgggattat atgtggccaa gttcccagga aaaataataa 60

acttgtaata cgacaattat tttaaaaaag tgttctcaga aacgagctat cacgtgtgga 120

gatcaatggc tttcaggcga aatgatcaat cttatggcca cattcatggc atagtttggt 180

cagatgatct catattgtgc acaagggtgc atattggaat ggcaaacaat gttgcctaag 240

gaagttttca ttttgtttg acgaaaaaac cattttccat tcttcgagtg cccaaaagga 300

ggtttttttg tgaaggacct cccaaataat tgttgcataa ttgtaccaa tcatttttct 360

aaaatactag tccatattta atgcacaatt aacaaaaatg gttgggtgta aaatgttttg 420

atccacctct cgtgaaaaag acaaatttcc gcc 453

<210> 5988

<211> 286

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A6

<400> 5988

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ccgtgtcagc agccaggcga cgcggagggg atgaaggga tacagagaac atgtttctgt 120
ctaggtcatc ctgcttactt aggggaggtg gatggcccga cagaaggcat gcacatattg 180
acgagggccg agactaattt gttaacggtt atttttaagg tttattgtct gtttatttct 240
attttacaac ctgaatgaca aatgggacac aactgtaac agaaca 286

<210> 5989
<211> 379
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: LIB104-041-Q1-E1-A8

<400> 5989

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acgtgcccag cgagatgcag agagaagcac aatcaatcga gtgactcaaa ctatgtgccg 120
ttgatgaaca ggaaaggttg taaaaacaca ttctgaatta catagaaact tgtaggctgc 180
atctgtatca tggattgtga tccccttatt ttcgttggtt tggatctgtg cacatacacc 240
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tgttctgtta tttgtatata caccagcata tgctgaagga caaacggatt ccaaaaaata 360
aatcgtgca taataaaac 379

<210> 5990
<211> 386
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: LIB104-041-Q1-E1-B12

<400> 5990

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ctcagtagaa cgataacctc tgtgcacagt gatgtttcag tttctacatt gatggtttca 180
agcataagaa ggtttcaaaa ttaaatgagc cttgtacagg actgataaca aattatgctt 240
tctgagtttc aagctactga aagtaattga agctttgect tcgctatgta agaatgggtg 300
catgtgttaa ttagtgggtc acattttttg agactgtcca aaattctatt ataaaatgct 360

tatatgaaaa aaacggaaca aaaacg

386

<210> 5991

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B2

<400> 5991

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ccggtgggca tattttcatc agggaatcgt gcttccacca gtctggggat tccaagagga 120

aagtgaaccc gacgcactac cgggagccga ggttctacac caaggtgttt aaggaatgcc 180

actcctatga ccaagagggg aattcctttg agctttctct ggtaacttcc aagtgcattg 240

gagcttatgt gaaaagcaag aagaaccaga accagatatg ttggctgtgg gagaggggtca 300

agtgcacaga agacaaaggc tttcagagat tcttggacaa tgtgcagtac aaatccactg 360

gaatcttgcg ttatgagcgc gtgtttgggg aggattatgt tagcaccggt ggattcgaga 420

ccacaaaggg attttgtgga caa 443

<210> 5992

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B4

<400> 5992

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attagcatgt ttgagttttg catgtagtct agtctagtgt ggcgttcgtc cgacgaaggc 120

ttcaggtgag cgcgccaaagg aggtgagatg ccaggatgcc gtgtgaggcg gcgagcacgg 180

cgagatgccg atggtgctgc gtgagaagcg gcaagacgta tcagaggctg gagccgtgat 240

ggactgcac aaattgggtc ggggtgaaccg gccggtcgtt ctgtttgttg gactagctgt 300

tcatgcgtga gttcgttttag tcttagccga gagtgtcgtt gctagtagtt tatgcatgca 360

tgtagttggc ctggtcacia gtggttaccg agtcgtgttc aacg 404

<210> 5993
 <211> 437
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B7

 <400> 5993

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 aaccgtctgc tgcgccctcc atgacggggc tgaaatggca cctcagaag cagcactgcc 120
 gctactcggc atggttctgt acatatctct gtcgattcga acaacgcacc aggggtgctca 180
 gctatatattt cagcgcagtg gcggctcgag gacaggcggg ttttaagattt gatttgctgt 240
 aatgctacga ccaagtgtaa caatgtactt atatgcactg caacctttgg aggctgcgca 300
 cagggtgattt gtatggttgc ttacattggt ggatatttaa ttgtgcacaa cctaaatatt 360
 atgcacacat cgccattggt tccgcttggg aaatgcgacc cataaatgtg ttccaaaaaa 420
 caaactcctt actggga 437

<210> 5994
 <211> 431
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-C12

 <400> 5994

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 aaaattagtc ctaatatgat aggcattcaa gatgggtata ataaaaactt tcatatagag 180
 tgtattgaat actatgagaa gtttgatact tgattattgt tttgagatat gaagatggta 240
 atattagagt catgctagtt gagtaattgt gaatttgaga aatacttggt ttaaagtttg 300
 caagtcccgt agcatgcacg tatggtaacc gttgtgtaac aaatttgaaa catgagttgt 360
 tctttgattg tcatccttat gagtggcggg cggggacgag cgatggtctt ttcctaccaa 420
 tctgtccccc t 431

<210> 5995
 <211> 358

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C2
 <400> 5995
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 aaataaaacg atgggagatg tgccacgctc ttaaatacca gtcttctgct ctaatcttgc 180
 taaattactt gttgcatttt gcagcttgtc tacctttaca gtgactacct tcttttggct 240
 gtgctcattt ggcaaaacag tttgtctaata tcacatctac ttogtgtctt tttagacatt 300
 tcaaatagac aacaacatac ggatgtatgt agacatattt tatagtgtag atccattc 358

<210> 5996
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C6
 <400> 5996
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 cccggaccag cagcgctta tcttcgccgg caagcagctg gaggacggcc gcacccttgc 180
 cgactacaac atccagaagg agtcactct ccacctggtg ctgcgcctgc gtggcgcat 240
 gcacatcttc gtgaagacc tcacaggcaa gaccatcact ctggagggtg agagctctga 300
 caccatcgac aacgtcaagg ccaagatcca ggacaaggag ggcaccccc cgaccagca 360
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 ccag 424

<210> 5997
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C7
 <400> 5997

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 gcctggcgtc acatgtcgga gtcgccatct ggcgtattac cactcggca cctaacgata 180
 tccctatgca gcggttgctg atcgtgcttg gcgacaggga cgtaccctga agcgccgcag 240
 ggagctccac ggttgcggtg catgcacgga gcttggtgtc gacgtgtcgc cggcgcgcgga 300
 gcgctcgag 309

<210> 5998
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C8
 <400> 5998

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 ctggccagca aaaagcgct agccaagcat gtattggatg tgactggtgt tacaattgac 120
 ccagatagcc tttttgatat acaaattaaa cgcattccacg aatacaagag acagctgatg 180
 aacatttttg gagctgtgta cagatacaag aagttaaagg aaatgagcgc agcagacagg 240
 cagaaggtta caccgcgcac tgtcatggta ggagggaaag catttgcaac atacaccaac 300
 gccaaaagaa tagtgaaatt ggtaaatgat gttggtgctg tggatgaaca cgatgctgac 360
 gtcaacaaat atctgaaggt ggtgttcatt ccaaactaca atgtatcagt ggctgaagtg 420
 ctcattcctg gc 432

<210> 5999
 <211> 369
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C9
 <400> 5999

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 ctagccaagc atgtattgga tgtgactggt gttacaattg acccagatag cctttttgat 120
 atacaaatta aacgcatcca cgaatacaag agacagctga tgaacatttt gggagctgtg 180

tacagataca agaagttaaa ggaaatgagc gcagcagaca ggcagaaggt tacaccgcgc 240
 actgtcatgg taggagggaa agcatttgca acatacacca acgccaaaag aatagtgaaa 300
 ttggtaaatg atgttggtgc tgtggtgaac aacgatgctg acgtcaacca atatctgaag 360
 gtggtgttc 369

<210> 6000
 <211> 218
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D12
 <400> 6000

ccctatagtg agtcgtatta gacgtgtatg gaagtcctag gccaggcgac tatttcacgg 60
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 aactcagtag atccttttag gacgccctca gtgaccacag gttgaaccta acgaagttag 180
 actgtgctat ggctcgatat tcacgcacta gctgtacg 218

<210> 6001
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D5
 <400> 6001

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 cgacgaacca atccagccag ccgaactcgt cagcgcgagc ccgcccttcc cgcgagataa 120
 accatgggtg gggacttgg tttgatacag attgatcaat caacagtagc catcaaggag 180
 acttttgga agtttgatgc gatcctgcaa cctggatgcc actgcttgcc atggtgccta 240
 gggcagcaga ttgctggata tctttctctg cgtgtgcagc agcttgacgt ccgatgcgaa 300
 accaagacca aggataatgt ctttgcacac gttgtggcat ctgtgcagta ccgtgctctt 360
 gctgacaagg catctgatgc cttttacagg cttagcaaca ccagggagca aatccagtcc 420
 taagt 425

<210> 6002
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D6

<400> 6002

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 ataacttgtg aggtacgtcg atcgatgggg gggtagttaa agtcgatcta ggtatatgtt 180
 gggagatcaa tcggtataca tgcattgtgtg tgttagaagc aaatgaggca cgaggagaag 240
 gatagagaga gagagagggg tgcattgtagg aggtgggtac agaggcatac tatatcgagg 300
 gtggaggagt gtgcgagtac gagaatgatg aaaagagtgg tgggagtgag gcatggatgg 360
 tgacaagaga agaggggaag cttgtgtttg tgctaggcac acctggct 408

<210> 6003
 <211> 360
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D7

<400> 6003

tacgggagaa gaagaagaag gagcagaaga tgaagaagaa gaaggaggag aagaaaaaga 60
 agaagaagaa gaaacagaag aagatgaaga agaagatgaa taagaagcag aataaggaag 120
 aaggataaga agaagaagaa gaacatgaag atgacgggaa gacaagtaag aaggataaaa 180
 aggagaagga tgagaaaaag aaagaagatg gcgaaggctc agaaaaggag aaggccatga 240
 aagggaaaga taagaagagc gagagcaaag agaaggataa aaatagcgtc aaggagactg 300
 gagctgatgc agatgacagt agccccaaga acaaaaagaa ggagaaggac aaggcaaaga 360

<210> 6004
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D9

<400> 6004

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gtacctcttt gtgcgttggg gcctgcccgt gggcaacatg tacattgtcc tcggggaaca 120
tggcgacacc gaccgtgagg agatgctttc aggactacac aagacggtga ttgttaaagg 180
cgtcaccgag aaagggtcag aggacctgct gaggagctca gggagttacc acaaggaaga 240
cgttgtcccg tccgatagcc cattggctac caccacgcgc ggtgatctga agtcggatga 300
gatcctgcgg gctctcaagg aggtctcaa ggcttccagc ggctgatcgg ttgcccggaa 360
gctcgatgat gccgaacatc ttcactcatg ctatttaata tcttccgctt g 411

<210> 6005
<211> 87
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-E12
<400> 6005

ccctatagtg agtcgtatta attgtatcgc gacttggatg gatgagatcg acgatctaac 60
tgctcatggt cagtcgtcat gaggggtg 87

<210> 6006
<211> 431
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-041-Q1-E1-E3
<400> 6006

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tattagattc caatttccac taaggaaagg catggaacac tttacaagaa agaaagttaa 120
attaccttgt gaatctatca tgcgagctac ttatgaattg aatgccaaag atggtactac 180
atagatctat tctcactttt atgcctagct aggggcggtta aacgatagcg ctagttggga 240
ggcaacccaa tttgatTTTT gtttcttgct ttttgcttct gtttagtaat aaatatttca 300
tctagcttct gtttagatat gtttttatgt ttttaattagt gtttgtgcca agtagaacct 360
ataggataac ctacggtgat aattaatttg attctgctga naaacagaaa gttttacgcg 420

cacgaaaata a

431

<210> 6007
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E5

<400> 6007

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gctacgagga ctacgacctc ggctccctct gcgtccacct cgaggaggac caccctacg 120
agccacaccc cgcaccttgc cccatctgct ctgaaaagat tacaagagat atgctaaatc 180
atatcaccat gcatcatggg tacttgttca aggcgcttct aggaggcggg catagtcata 240
ggtaaggaa caccaccact ggcactacaa atatctatgc tgatccactg ctttcacgtg 300
ttggcctggg ttttgcaaca tcagatgccg aagaaccatc gaaatcatca gtcccggttc 360
tcgatgatac ttcaattcct aaggaggggc ctctcaacc ttgggaat 408

<210> 6008
<211> 214
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E6

<400> 6008

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acttcgaaga tacagacctt ggggcgatca gcatggagag aatgcgaggc cacctcggct 120
agtagattac tactatagac gtagtacgaca cggacgcaga cttcagtgaa ttagtgcaac 180
tgccctcaggg tgtatcacgg tgagttgttc aggg 214

<210> 6009
<211> 212
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E7

<400> 6009

atagtgagtc gtattaaact ccctgcgggc cctgatcccc atgtgtcgag ggtgccaggc 60
 gtcggcgtgc gggaagatc cgggcgcggc cggcgcaacg gcgctgcaga agcacgcggc 120
 gttcatcgac ggtgacaggg agcgcgtcgt caacttcgct gacacgtacg caccctgtcc 180
 ggcccgcggc cttcgagttg ctgcctccac cg 212

<210> 6010
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-E9
 <400> 6010

gtgagtcgta ttaatagtagt tactgtagct acgatacctg tagttcgctt gccctgctgc 60
 tacttcagta gtcattgctt aataataatg gtctcagtat taaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa agggggggccc aaaaaaattt aaagctaaat aaggtgtaca agaaatttaa 300
 aaaccttcaa aaatttcacc aaaattaaaa ttaaaggggc ttttttttaa aagtttttag 360
 ggggaaaaac tgggggttta 380

<210> 6011
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-F11
 <400> 6011

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 aatttgcttt ggttataaaa ttagtcctaa tatgatgggc atccaagatg ggtataataa 120
 aaactttcat ataaagtgcg ttgaatacta tgagaagttt ggttctttat gattgttttg 180
 agatatgaag atggtgatag cagagtcacg ctagtagagt agttgtgaat tttagagata 240
 cttgtgttaa agtttgtgat tcccgtagca tgcacgatg gtgaaccgtt atgtgatgaa 300
 gttggagctt gatttattta ttgatattt ctttatgagt ggcagtcggg gacgagcgat 360

ggctttttcc taccaatcta tccccctagg agcttgcgca tagtacttcg tttggataac 420
 taat 424

<210> 6012
 <211> 220
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-F5

<400> 6012

caatacgaat cactataatg actcctatca caaggagggc atgatggaga agatcaagga 60
 caagatcagc ggcgacggcc acagcgacgg caacaatgac ggcgaccgta aaaaaaaaaa 120
 aaaaaaacg gacgctcaag cggatgcact ctaagatcca cgcttacgta accttacatg 180
 ccacctcata tctgtttctaa attgtcacca aaattcatct 220

<210> 6013
 <211> 234
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-F9

<400> 6013

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 acgatgggag atgtgccacg ctcttaaaaa aacaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 ctcaaaaaaa ataaaaaaaa agaaaaaaaa aaaaacaaaa acaaaacaaa ctct 234

<210> 6014
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G12

<400> 6014

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ggataaccaa ttacttgagg ttgtgcctcc atcactgact aatatctcca gacttcagct 180
 ttttgatgtt ggaaataacg gattcagtg ggttgtccct tcagagttgg gaagattgca 240
 gtatcttaga tggttttgtc tggatgtgaa caagttcgag gcaaacaatg agcgagaatg 300
 gcaattcctt acttctttga caaactgtag caggctgcga ctgatgtcta tagaacaaaa 360
 caggttctca gggcaattgc caacctcaat atctaactta tccacaaaca tccaagagct 420
 aagtattttg gccacaata tatctggtac tatccc 456

<210> 6015
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G5

<400> 6015

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 aggaacaagt cttgggaggt ggaagggtgc aactaccatc caggcaccaa caggctttat 180
 aattgtctta cgagaggctg gaaggccttc tgtaaggaga acgagctcaa ggcaggagac 240
 atctgcacct tcaaagtcac caagagcacg ctgtggcatg ttgtcatcga ccgctgctag 300
 aaatacgggt cacagatgat cttggctgat ggcggacctg ctggttttgc gaacctaatg 360
 agtatcatga tgaatattgt ggtgacatga taatcaacct gctaggagtt tgtgt 415

<210> 6016
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G6

<400> 6016

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 tgggaggttg acggtgtcac cgaccatcca ggcaccagca ggtcttagca ctggcttacg 180
 agaggctgga aggccttctg tagggagaac gagctcaagg catgagagat cagcaccttc 240

aaagtcacatca gcatcacgca gtggcatgta gtcacgcacc ggggctacaa atacggttca 300
cagatgatct tggctgatgg cggacctgct ggttttgcga acctaactag tatcatgatg 360
aatagtgtgg tgacctgata agccagctgc c 391

<210> 6017
<211> 183
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-G8
<400> 6017

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gaatgttcac atgagtggcc gtcgtcatag aacagtgatc atggggataa cgctgaagtc 120
agccggtgtg gtcgctgtgc agcagaggct ccgtgagctc gctggggcaa tcatgaggag 180
gcg 183

<210> 6018
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-H10
<400> 6018

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agcaaaaata aggcacatag tggcttctct catgataaca agtattatgg tgggtgaaca 180
aattattgcc gagcaattga tagaagagcg cattgttctg agaatatcta ggcaatgatt 240
atgaacataa gcatcacgtc tgtgtaaagt agaccgaaat gattctgcat ctactactat 300
tactccacac atcgaccact ttccagcatg catccagagt attaagttca taagaacaga 360
gtaatgcttt aggaaagatg acatgatgta gagggataaa ctcaagcaat atgatataaa 420
cccatcttt 430

<210> 6019
<211> 413
<212> DNA

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 aagcttttatg gtcatagtat tttgcgaaaa gccaatTTTT cctactacaa aggaatataa 180
 tttatttaac tacaaagttg gttgaaaata ttgagaaggt tcttccaact caatcccaaa 240
 ttaacatcaa taaccaaca aattatttaa gtaacgtgat gagatcaata tgataatcca 300
 agaaccagat actcaagatt gtccataacc gggaacacgg ctaatcatga ttagtttgta 360
 cactctgcag aggtttgcgc acttttccca caggactcaa ttaataagac atgacta 417

<210> 6022
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-A1
 <400> 6022

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 ccagctaagc agcctgcagg agaggatcag ggagaggatg aacgtgaggg aaggcacctc 180
 ctacatgagg agcgccgtgc ggcgcttctt cgaggctggc atgtctgcca agaggatggg 240
 cctcgccgac gacgagcaga tcgtcaagat gagggccctcc cttaccacca gaatgacctc 300
 ctccctgca gatcaagatg atagtccgta gagggcacag accgacgcat acataccata 360
 cataggatga agattgatgt tgggattacc aaaattccta gtactacaca tacatacata 420
 gaag 424

<210> 6023
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-A6
 <400> 6023

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ttaccacaat catccttgct gtaaacacct tttgggagaa acccacttga ttggaattta 180
 ttagaatact ctatgtgctt cacttatatc ttttgagcta gatagttttt gctctaatagc 240
 ttcacttaaa tcttttagag catggcgatg gcttaatttt gtagaaattg atagtctctc 300
 atgcttcact tatattatct ttagagtgtc ttagaacaga atggtatttg ctatgggtat 360
 aaaattgggc ctagaatgat g 381

<210> 6024
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-B7
 <400> 6024

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 aggccaggga aaggcttata gcaaaggagg ctgcgagcg gatgaactaa gtttagcatt 120
 gttgaaccat atctattcct catccttgag tagtggtcaa gcataactgtg gctgtttggc 180
 tccagttttg gaagtcattt ttgtttgtct gagacatctt ggaaagaaca gtgtaagaat 240
 gaagtatttc tgtttaatgc cagtttagtat ttttgctgaa aaaaataaaa ttcaaataac 300
 aaaaaaggat aaaaatcaga attcccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagcgg 360
 ccgctctaaa ggatccaagc ttacttaccg gtgcat 396

<210> 6025
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-C7
 <400> 6025

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 tccccctagg agcatgcgcg tagtgccgag gtttttgatg acttgtagat ttttgcaata 180
 agtatgtgag ttctttatgg ctaatgttga gtccatggat tatatgcact ctcacccttc 240
 catccttgct agcctcttcg gtaacgtgca ttaccctttc tcatattgag agttggcgca 300

aacttcgccg gtgcatccaa accccatgat atgatacgct ctatcacaca taagcctcct 360
 tatatcttcc ccaaagcagc caccatacct acctattatg gcattttcat agccattcna 420
 ggatatattg ccatg 435

<210> 6026
 <211> 242
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-D12
 <400> 6026

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 aaataacgct gttgttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggccg ctcaaaagga tcaaagctaa 180
 cgtacgcgtg aaggcgacgt caaagctctt caagagggtc accaaaattc aattcacggg 240
 gg 242

<210> 6027
 <211> 272
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-E8
 <400> 6027

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 cttagcgtaa gagtttgcca gcctgcacga acgatttcgg aaagcaatgc ttcttttggc 120
 gaaggcttta tggccatacg attctcctcc tgttctactc ccgtgagctc gcgggactat 180
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 cgagacgact gtgccatgat caaaatccgg ta 272

<210> 6028
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F6

<400> 6028

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aattttgggc gaagaccgaa gagcggcggc aactataatt tccagtgcta gcatctgtaa 180
agtatcacca aaatatgcat ctccattcac tattgtaaga tgttctttct cttttctgat 240
tgagatgtat gtagacgaat tttgacgtga ttgttcattc aattcaatat atatgtaatc 300
tatattataa aatatattat atttgtgagc agaggaggtt gcagtttaga tactccctcc 360
attcacaaat ataagatgtt ctaacttttg tctgaattag gtgtt 405

<210> 6029

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F8

<400> 6029

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atttgtgcct cagatcctag cttacgttca accatgggtct gtaagcacat ggtttcttat 180
ctagtttccg tatttatctt ttgatgatgt tggttgttca ctattttgaa acatgaataa 240
ctttttactg acttcgatct ctctcatata ctacatgatt cagcttcacg attttcttca 300
tactatctta tgaaaatgta acaaacacat ttttgaaact ttttaacatt ttaaaaaatg 360
taacgcacat ttttaataata tgacactatt tctattatgc aaatatattt taca 414

<210> 6030

<211> 434

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-G3

<400> 6030

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gacatgtccg ttccgatccg gacgtgtccg gcggcggaga gggagcgggg ctaggggttg 120
 actgcgcgaa aaatcccgag gggatcgcat atttataggt agagggagct angagagtcc 180
 aaatgaggag cggttttcgc ccacgcgac gtgatcgaac gaccgagagc gtggagggga 240
 gttagatggg ttttgggcta ctttgggaagg ggtgttgggc tgcaacaaaa gaggcctttt 300
 acggttacct gggttaaccgt tggagtatca aacgacctcc aaatggcacg aaacttgaca 360
 agcgggtctac cgggtgtata ccaaggccgc ttggcaaacc tcgggtcatt ccgagaaagt 420
 taacacccgc tcac 434

<210> 6031
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 6031

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 aaattgtcat catgatttta attttcaatt ggagtatgct tcacattata gttattttgt 120
 tgagtttgct cccactacta ttcagtggaa aaaatttgct tttgtggaga gtaataaaat 180
 ttctatgctt gtagatcatg aaaagaatgc tttatgtgat agttatattg ttgaattcat 240
 tcatgacgct attgaaaatt attatgaggg aggaatatat gcttgttagga attgcaataa 300
 tttcaagttt cctctctatg ttcttaaaat cgtgaagtta tgcttgtttt gccttcctat 360
 gctagttgat tattgttcnc ataagttttt tgctcacaaa atccctatgc atangaagtg 420
 ggtttagactt aaatg 435

<210> 6032
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-G7
 <400> 6032

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aaagtacttc acacactttt gtgttttgtc taattgcagg tgtatgggac atttgtacaa 120
 tccacatatg aagatagggg aaaaggagaa gtttaggttc tgttcaaaaa gtcctctcac 180
 gtcacttttg ggccaagaga agatagagtc catgtctctc acgttctgga ttcagattcg 240
 aactgcacag acatacctga ctcaaaacgc caacaacttt ttcatacgga ctccgaattg 300
 ggtgattctt tctttgttgg aaagtagatt tcatactctt tccaacccaa ttggattcac 360
 ctttaaattc gtcgggagcg ttgagatatg gacgaaacaa tctgacgctg cagcagaatc 420
 tgagtcaaac aaca 434

<210> 6033
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-H7

<400> 6033

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 cacacagtcg attacaagga agaagatcta catatccgta ttgccaagct ttccttcac 180
 gccaaggaga gtcccatccg gacacgggac gaagtcttca atcttgtatc ttcatagtcc 240
 aacagtccgg ccaatggata tagtccgact gtccggagac cccctaatac aggactccct 300
 cggtagcccc tgaaccaggc ttcaatgacg atgagtccgg cgcgagatt tgtctttggc 360
 attgcaaggt gggttcttcc tctgaatact ccatagaaga ttttgaacac aaggatagtg 420
 tccgggtcag canaacaagt tcacata 447

<210> 6034
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-H8

<400> 6034

aaaattcccc ggtcgacggg aggtgtaact tcttctaatt gaggttccag aaacttctag 60
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tttttctcggt ttccttcata acattttctt ttcttccaaa acttttctgg tgcaattcac 180
 ataagctctt gcacttctag tactcaacaa atcgatgac ctttaagcgtg tgtcctggca 240
 gggttcggtaa atgtagacaa gacccggaac accttcgggt caatggccaa tagcagaact 300
 gtggacatcc atattgtccc ccctacactt acacgaatta ttatcgagtg aacctattgt 360
 tctgacacac aattcccttt atttcacaat ataacataat caaaggatgat acttattggg 420
 atccatgtga agcaactcat gatcaccata c 451

<210> 6035
 <211> 345
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-A1

 <400> 6035

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 aacagaagga cattcttcaa attgtttttg gtttaaaaaa tgttcacat ttaatatct 120
 aatatttcca aaaaggatc agaatgtttc aaaaaaatgg atgcatttaa aaatattctt 180
 attttaaaaa aaatctaatt tcttttaaaa agcatgtatt aaaaaatgtc agtcttaaaa 240
 aaccatttta taaaaaagaa aatattaata tattttcaag aagtanaaaa taaaatcaat 300
 gttgcgtaat tgcacacaca aagaagattt tnggtttttt tggcc 345

<210> 6036
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A6

 <400> 6036

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 ccgatggtga cggcttcacg gacttcagcg agttcatctc cttctgcaac gccaaaccgg 180
 gggtcatgaa ggacgtcgcc aaggctcttct gaatcagttc atttcacctc agccgtccga 240

tccaggagcc gatccatcta cgtacggctt cgtatatcaa tttcatgcaa ctacctactc 300
 cggtcccgat tcagcctcag cttcacctga ggccggccct aattttgttt gatcaatttt 360
 tttgctacta gtagtaacta gtgatgatca ctgttgacc at 402

<210> 6037
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-A8
 <400> 6037

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 gataacgaga agtgacaata gcttaatccg tgttgaccgt cttgaatatc atatcagaga 120
 agaactgaat aaaacagctt ctgggacat gggtgttttg catcctctga aggttgtaat 180
 aactaatttg gaagatggaa aagtcataga ccttgatgga aaaaagtggc ctgatgctcc 240
 tgctgatgaa gcttcgtcct actacaaggt tcctttctca aaaaccgtct acattgaaaa 300
 aactgatttt cgcgtgaagg actccaaaga ttactatgga ttggctcctg ntaaatctgc 360
 cctgctgagg tatgcattcc cgataaaatg cacagagggtt atttatggtg ataata 415

<210> 6038
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B6
 <400> 6038

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 gggagaggaa tgcgacgaga gctcgatgta gcatgcacgg accagagaga gccaaagggga 120
 cacggggacg aagaagatac aggagggaaa cgacggcccg ctacagcgcg ttcgtgggag 180
 cacggtgacg agcgcacagc aggaggcttc cagaggggga gatggctcta ggaggacggt 240
 gacgacgccg gaaacatgct agacatgggc atacggtgag gggatgagtg catagatggg 300
 gaggaggaga cagaagcgcc agagcgcgcg ggtgacatgc caaaatggtg gtcaccgcgt 360
 ggacacgaag ctaacccatg ctctgatcgg acaaatcatg tctggg 406

<210> 6039
 <211> 374
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-B7

 <400> 6039

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 gttgtcagca agaacgccga cgagatgaag gctgcatga gcaccatgga tggcatcata 120
 aacacggtgt ctgcaaakat ccccatggcc cctctcttcg ggctactcaa gccaacggc 180
 aagatggtca tggtcggcct ccagagaag cctatcgagg tccctccctt tgctctggtt 240
 gccaagaaca agaccctggc cgggagcttc atcggcgga tgaggacac ccaggagatg 300
 ctggacctcg cggcgaagca tgggtgacg gcagacatcg aggtgatcgg cgccgagtac 360
 gtgaacacgg ccat 374

<210> 6040
 <211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-F9

 <400> 6040

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 gcgtgccaga ttttgacgaa gggcagtggt tgcattgact cgcaatgtga cattacattc 180
 acatctgtcc caaaaggatc aacatcatga ccatcataat cgccgtgctc tccgagtaag 240
 ttgtcggcag gaacaaaccg aacctcgcaa tcataaaaaa agcggccgcc ccataggatc 300
 caaccttacg tcaccgagca tgtgaagtca cagctcttca aaagggtcac ctaaattcca 360
 ttcattg 366

<210> 6041
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A10

<400> 6041

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gctaggcaat attgctctag tgcttcaacta ttatcttttt agagcacgac agtgggttta 120
ttttatagaa attgttgatc tctcatgctt cacttatatt attttgagag tcttctagaa 180
cagcatggta atttgctttg gttataaaat tagtcctaata ataatgggca tccaagatag 240
gtataaaatt agtcctaatt ttcataataa gtgcattgaa tactatgaga agtttgatac 300
tttatgattg gtttgaggta tgaagatggg gatattagag acatgccagt ggagttattg 360
tgaatttgag agatacttgt ggtaaagttt gtgattcctg tagcatgcac gtatggtgaa 420
ccgttatgtg atgaagtgg agcatgattt attt 454

<210> 6042

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A8

<400> 6042

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ctagacgact aggttcccca tccaggttca agtcctaaac ttgacatggg tgctctcgta 120
gaagggtgtg gcgcgtgttg tgagcgtctg cgtctgcatt gtgtttctaa agaaaaaaaa 180
aatctggctg ccgatcgacg ggtgaagaaa tgccaagaca tcatcttggt gcaaataccc 240
caccctactc tctgcgagat tcgctaagtt cgttgtgcat tacatactgg aatgcgtagg 300
ttacctagtt acgatcgac tagaacaaca tttgtgtact gagtattcgg acaaagtttg 360
tttttaaagt gggcaacttt tttgttatga tcc 393

<210> 6043

<211> 429

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-044-Q1-E1-B10

<400> 6043

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gacgcgtgcc atgcaagtgt ccgttgttgg ttgggaaaag catacgcatt aatgcatgca 120
tgggatgcac acaaacttta aatgcgtgat cagtgggtcat gtttatctta ctgtatgtca 180
caacgtgtac tgtagaaatt cattgccttt tgtttttcac atgggtcggc catggctata 240
tttctatgaa agcgttgaaa tgtgatttct ttttgtatca cacggctagg caatgatgca 300
tacacgaatg gtaattcact ggcatgaaga catgggtact gccactagg actacacgtg 360
tcgaagttaa gtctgtcatt ctgcangggg caacgggtgct cagatcaaatt gttcatgtca 420
ccatgacgt 429

<210> 6044

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B12

<400> 6044

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catagagagg agaagcagag cctgagagtc agtcagcgaa gcttgccatt cgaccgtcca 120
tggaagcact ctgagattca acctaacagt gttggggcct tagcagtgtc ttagctttct 180
aatttccacc aatccatccg tcagtccctt ccggtgtaat gattcttttg aacaagaaaag 240
ggaacccggc cgtgcaacag tagtagctta ggctagctct gcgtatcatc atcatcatct 300
cctttcttct tgtgctaagc ttccaagatc gatcggtaca tagcgcgga cccttcctat 360
ccattctccc tcaaagaga ggggattgca ttgaagatgt gtaatagtat catttgtatt 420
gccattatat atata 435

<210> 6045

<211> 404

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-044-Q1-E1-B2

<400> 6045

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaagggg cgcgccaaaa ggatcaaagc ttacttacct gtgaatgcaa cttcaaacc 180
 cttcaaaagg gtcacaaaaa ttcaattcac gggccgctgt ttaaaaacgt cttaacggga 240
 aaaaccctgg ggttacaaaa cttaatcccc ttgaaaaaaa tccccctttc gcaaactggc 300
 gtaataccaa aaaggccgcg accattcgcc cttccaaaaa tttgccacc ctaaattggca 360
 aatggaaccc cccctgtacc ggcgaataaa ccccgccggt tttg 404

<210> 6046
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-B6
 <400> 6046

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 ataaacaaaa gaaaagaaat aaatcaagaa gatcatatac taatcttatg gtaggtgatg 180
 gcaccacata aggaaaagta taagtagaaa attttattag agattgacaa acatagcatt 240
 agtcaatgat gcaactcatg aaagaattaa taagggaaga gaatattcac atacaaatag 300
 actatcctac aaatcttttg tgattgtgag ccccatcag aatattatat gccagaattg 360
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<210> 6047
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-B7
 <400> 6047

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tctaagtga gcatgagaga tcaagtttct ttaaaacaaa tccaccaccg tgctctaaaa 180
gatctaagtg aagtactagg gcagaaatta tcacgctcaa aaagatataa gtgaagcact 240
atgagcaaat tagcaagctc aaaagatata aggaagcaca tagagtattc tatcaaattt 300
caaatcatgt atgggtctct caaaaagttg tgtacagcaa ggatgattgt ggtaaactaa 360
caagcaaaga cacaaataat acaaacgct ccaagcaaaa cacatatcat gtttgtgaat 420
aaaaatatag ctccaagt 438

<210> 6048
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C6

<400> 6048

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ttacagtttt tcgtagttta gatcgagtct gttcttcata cctacagtcc acgaaaaagc 180
cacagaaaaa atttaggggt agttcatcat atccgaacca atctgagcct ttgcatagtc 240
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agagtctagt cttttagagt ttcgagttct ggtcataagt tgtcacgctg ccgccgcacc 360
atcatcatcg cccctgccat ctaccaccac cgctccgaat ccgtatccat atagcagcac 420
caatccgtgt 430

<210> 6049
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C8

<400> 6049

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tcgccgaagc cgctgccact tcacgtcccc ctaccggaca agcagagtaa aagctcgatt 180

gccattatta acctagctag ctgcaaagac gaaggagggt tgttgatgta tcctatttgg 240
 cttccttatg tagtttgetg catcatcggt gtcgagccaa gaacaactac ttatgtatgc 300
 attagtgtat tacgctactt gtcagcgatc gagtctgtct taactcttga gtagtagtaa 360
 tagttgctat caagctgtgc ctgtgcgctt gctcgctata actaattttg tacaacgtaa 420
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<210> 6050
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D11

<400> 6050

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 ttcgccagtc cttagagagc catatttget ttaatcctca catggttaca accataatag 180
 aatgcaccct cagcaatatg tttcatcaca ttgcattaat taaccaggca attactatt 240
 tacaacattt tatgttccag tcattagtca atcaccatat tgcacattat aacacactcc 300
 tatgacaatg tcaactagtt acacatacca tacgttcgta acaccttgga aatccaacaa 360
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<210> 6051
 <211> 185
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D4

<400> 6051

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 aaaaaaaaaa aaaaaaacaa aaagataaaa aaaaaaaaaa agcggccgcc ctacaggatc 120
 caggcttact tacgcgtgca tgctacatca tatctcttct aaattgtcac ctaaattcat 180
 ttcaa 185

<210> 6052
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D6

<400> 6052

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cacagtgctt acccatatac tgcattgtgct atcgaaaggg atgatgattg tcgttcgac 180
tgaggagcatc caacggtgta tacgtacgat ccgtgggggtt tgggtttctcg ccaatcagaa 240
cgcacgaccc agatcacgcg cgcagcagga gggggacatc ggccacgggtt ttgtaggcac 300
acggcttttcg tgagtgaacc gtgtgctatt tgaaaacatt ttatgagaag aatctcggtt 360
tttaaattccc cgtaaattcca aaactcaccg gagaatcgtg acatggcca 409
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<210> 6053
 <211> 324
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E12

<400> 6053

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tctgacatat ggatctagga ggaagggtgt aggacacagg cagctggaga tccatgggtgt 180
tgagctcact gtaattaaaa tggctctctc cccgcctgcg gtgttgatg tgatgtggta 240
tcaattggaa taagttcctg atagaacctc tgacattggc ttcattgggag ctttgggccc 300
taataagagt tgcctctgat tctg 324
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<210> 6054
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E2

<400> 6054

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 tacatgtcaa catgttgtgt gatattctca gctaagtctg gagtgacagc ggttcctggg 180
 gagatggata ggacgactgg tctctcaagc tctttcagga tctgcaaaac gcaatgtgaa 240
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 gagggctaca ttaattaatt caaacctctg aaacggccac gatttccttc gggctataat 360
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<210> 6055
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 6055

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 atagcgagga gagctatagc gtgttccagc gaaatgcact acagctattc ctttctgttt 180
 gatttttctt ttgttttcgt tacagtttta tttgtttcat ttgcctttt gataggtctt 240
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 ctctacagga tgagcgtgct gcgagagagt ggtagcagt anggggcttc tgggtgaagc 360
 gctaggacgg agtcctagcc taccggcatg agtgagggaa ttt 403

<210> 6056
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-E7
 <400> 6056

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gaaagactgc ctggtgccgg agaagatgat ggaccggact caaacaagac aacgtcggaa 120
gcagctacct cacggtagca ggcgactgat tgtctgctgc caacttggca tgtgactgaa 180
catgtataaa ataggattat gagttgacaa aggttcaccg cacaggggtgt atactggttc 240
attctacaat tattttggta aaggtttaat gatcttttgc taaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaaa 360
aaaacccaaa aaaaaaccca acaaacgaaa aaaaaagcgg ccc 403

<210> 6057
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E8

<400> 6057

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aactaaccgg tttggatatt tgatctgagg ggcctctggc ccgatagcac taaccatcac 120
gtgggcatag tatgggcatt ctgcgtcgta tgcacagcc gaagcttaat agacgtcatg 180
cgactgagcg gcgcgcgcgc ggttggactt gtaagctccc gccttttttt aaggaggtag 240
ctaggtctgc tcaccggccg cccacgcaac gtgcaggagt tccccggggc atggcccatg 300
acccctgggg gcataggttt agtccggcgt gcttgacctc tctattaagt ctaggtcggg 360
ttgcggcgta ttgtttggac gaggccgggc atgaccagg aaagtgtgtc cgaccggagt 420
taatcgagcg tgggtgggt 438

<210> 6058
<211> 440
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-044-Q1-E1-G11

<400> 6058

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ggattaggcg gtccttggac agccggacta tctcctttgg ccggactgtt ggactatgaa 180

gatacaagat tgaagatttt gtcccggtgc cgggtgggac tctcctttgc atggaaggca 240
agcttggcaa ttccgatata tagatcacct cccttgtaac cgactttgtg taaccctagc 300
cccctccagt gtctatataa accggagggt ttagtccgta ggacaacgaa aatcataatc 360
ataggctggc ttctanggtt tagcctctac gatctcgtgg tagattaact cttgtaatac 420
tcatatcatc aagatcaatc 440

<210> 6059
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G5

<400> 6059

taccggtcca gaattcccgg gtcgagcggg aaatacacac ccaccctacc taaattcagg 60
tagaatacaa tacatttggg attggggcat gcttgtatcg atgcctatgc aagcgttgta 120
acctgtaaac cgacatactg aaaatgcgag gaacgttaag ttaagaagga aaaaaaaaaa 180
gaaaaaaaaa aagggcagag acgcgaaaag agaaaaagca agaagaaacg atacatgcaa 240
cgtca 245

<210> 6060
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G6

<400> 6060

cgggtgagtt gcgttgcttg gttaccttcc ggcgttgaga gttttgtttc ttaggctggc 60
aacgtgaaca tcaagcgttg ctgaatatgt gcctgcggct gctgttgatg gtagtagcca 120
cacattataa ttatatggga tggtccattg tcttgttcac caggttatga ggctttggcc 180
agggtttttag ctgcagtttc gattttcatt gacaaagaaa aaaaaaaaaa aagaaaagac 240
gaaacagaag aaaaagtaga aaaggaaaac gggagaaaga aaaaaaaaaa cggccgctct 300
aaaggatcca accttactta gccttggatg cgacgtcaga cctcttcaat agtttgacct 360
aaattcagtt 370

<210> 6061
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-H11

 <400> 6061

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 aagaagacat aatgcgttta caatccttag atcatgttg ttataatgaa aatcttagaa 120
 agagggttcc taccgatatt ctagttgata gaatttctga acttaatgat aattttgata 180
 ttcaaaacag cgggttgggt tttcctcttg aacaaaggct catgactttt tgccaaatga 240
 atgcgtacaa tgatgagttg gttgtacaat atgaagggcc aaaggaggaa acaattcatc 300
 ccgagcttga tcatggggga cttttgtcca ttaaattttg cccttttgat tactttttct 360
 tatctcaaaa aaaacttgct gctgaacgta gggagtaga gatgagtttt caagattttc 420
 cctatcatta ttatggcaat accta 445

<210> 6062
 <211> 253
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-H3

 <400> 6062

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 atacctgagg gtccccggga tgctgtagg tgggcccggg aaggccggat ctgccaacac 120
 aacggaaaca aggaaaaagg ggcaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcggccgc 180
 tcaaaggat caaagcttac ttacgcgtaa atgaaacttc atacctcttc aaaagtgtca 240
 ccaaaattca ttt 253

<210> 6063
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H9

<400> 6063

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ggatatctcaa tacctagtgc aatcttggtta ccggcaagta tctttaatcg ttctgtaatg 120
catcatccca caactaactc attagtcaca ttgcttgcaa ggcttatagt gatgtgcatt 180
actgagaggg cccagcgata cctcttcgat aatcggagtg acaaatccta atctcgatct 240
atgccaaactc aacaaacacc atcggagaca cctgtagagc atctttataa tcacctagtt 300
atgttggtgc gtttgataga acactaagtg ttcctccgat attcgggagt tgcataatct 360
catagtcata ggaacatgta taagttatga ataaagcaat atcaataaac taaacgatca 420
tagtgctaag ctaacgcact ac 442

<210> 6064

<211> 160

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G1

<400> 6064

attgcatgca cacatatata cgaccaataa aaaaaaatg aatatttttag aaatataaaa 60
taaaataaga aataaaaaag cggtgctct agaggttcca agcttacgta ctcttgggtg 120
ggacgtcata gttcttctat attttcactt aatttcaatt 160

<210> 6065

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-A11

<400> 6065

ggctgaccac tgggcgccta ctaacaccaa caggcgcacc tgacgctata ccgtgtgttt 60
tcaatcaaga agcctggaaa aaacgtgct gcaaaaggca aaacaacggc taggggggtg 120
acttgtagac tgggatgtat cccaacacgt ggagccgagg acaatgcgta cgtgcgtgca 180
cacacacatg tgctgtacat gtgatgaata ctgaataatc gagtcagatg accgcctgtg 240

gtcgtcgtct cgaccgcctc gtacatgtag acgttgcaca acacctgtac atgtgattga 300
 ataaccgaaa aaaaagaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa gcgggccgctc 360
 tagaggatcc aagctt 376

<210> 6066
 <211> 267
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C2
 <400> 6066

tgcgactgcg tccgcgattg cgactgggaa atgagcccgg atgtccgcag tcagattaca 60
 tcaactcaagc ggcatgtact cacaacacag cagggttcaaa ggattgaaga ggaactggga 120
 gatgtactcc gccgtccagt cttcaatagc aagctgatgc aacctgagat tgttgattata 180
 agaaaaagcg gccgctctac aggatcaacc ttacttacgc atgcatgcaa catcataatt 240
 cttcgagatc gtcactcaaa ttcaatt 267

<210> 6067
 <211> 141
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-046-Q1-E1-D3
 <400> 6067

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 gcggtcccaa aaggttcaag cctaacttac cttgaaggc aagttaaaac tcctccaaaa 120
 gggccaccaa atttaattta a 141

<210> 6068
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E11
 <400> 6068

cgggtcccaa ttccggggac gacggggcaa catgactcgc atcctgcact gcgacaagga 60

actgccgccg gagtgcctca atatgtacat ctcccaaagc tgcctcagcc tggcaccatg 120
 tacacagggtg gattgtcaca gggcatgttg gatcagatgc gtccatatgc acccgtgacc 180
 caggccaaat ccgggtccaa ctgccggcgg agtctccaag tcgggtccat cgccatgacc 240
 tgctactccc atgtaccgt ccctgtcacc catgccgcct gaaccatgcc ccactgatgc 300
 cacctaatgc gcccaagaca aagccgatgc cgccgtgccc gccactagct gtatccgcgt 360
 cgagcaacac cagcaacaac tgctgggtgt acgtgacgac gtctatgcac acatacttcc 420
 aagtgaacac gccatatattt c 441

<210> 6069
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E9
 <400> 6069

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 ccggtgggca tattttcatc agggaatcgt gcttccacca gtctggggat tccaagagga 120
 aagtgaaccc gacgcactac cgggagccga ggttctacac caaggtgttt aaggaatgcc 180
 acttctatga ccaagagggg aattcctttg agctttctct ggtaacttcc aagtgcattg 240
 gagcttatgt gaaaagcaag aagaaccaga accagatatg ttggctgtgg gagaaggcca 300
 agtgcacaga agacaaaggc ttccagagat tcctggacaa tgtgcagtac aaatccactg 360
 gaatcttgcg ttatgagcgc gtatttgggg agggttatgt tagcaccggt ggattcgaga 420
 ccac 424

<210> 6070
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-F5
 <400> 6070

gggtcgacgg ggcattccat ctttcgtctt cgtctatcgg taactttact tgaggctata 60
 tttttattca ccacatgata tgtgttttgc ttggagcgtc ttgtatgatt tgagtctttg 120

cttttttagtt taccacaatc atccttgctg tacacacctt ttgggagaga cacgcatgaa 180
 tcatgattta ttagaatact ctatgtgctt cacttatatt ttttgagcta ggcaatatcg 240
 ctctagtgtc tcacttatat ctttttatag cacggcgggtg gttttatttt atagaaattg 300
 ttgaactctc atgcttcact tatatcattt tgagagtctt ttacaatata atggtaattt 360
 gcttgggtta aaagactaat cct 383

<210> 6071
 <211> 151
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-G7
 <400> 6071

gggtcgacgg ggaccacaaa acggcggagg agcacaagaa gaaggacggg gagcacacga 60
 acgacggcta tgcacactga gggcatcatg gataagatca tggacaacat cagcggctac 120
 cgccacgggt acggcaagaa ggactgagac c 151

<210> 6072
 <211> 176
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H2
 <400> 6072

atcactttgc cctcaattag aaagaaattt ccggttaaatt caagttccta aaaaaaaagc 60
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa acgggccgcc caaaaggatc aaacctaacg 120
 taccctgtaa ggcaacgtca aacccttca aaagggtcac caaaattcaa ttcattg 176

<210> 6073
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H5
 <400> 6073

attcacgggt cgactgcgga gttgatctcg gatgtgtaca gaataattcc tcgctatcag 60

gtggtaataa cgcaccggaa cggacgctgt tcttgatgcg cggaatggca aggcaaagca 120
 ttctttcacc gagcaatggg gattgacgac ttgattacag acaagataga tttggcacat 180
 tcttacctgt aaagataatt tgccaaataa agccgtttat aagctttgcc actttgataa 240
 tctcttgtag tgacacaatt tgaaagaatt cctttgaaaa aaaaaaaaaat aaaaaaata 300
 aaaaaaatg aaccttaagc aaaactacgt aaaaaaagt tagaaccccc tcatgaagat 360
 caattataaa aattatctta gaatgccaaag aaatggctgc tacaattggg acaccaaata 420
 ctcggtaaac aaaaaggggg gggc 444

<210> 6074
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H7
 <400> 6074

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 gcacgcattt gacgtgcact acatcaacta cgattgatgt caccgtagat ctgtaacatg 120
 aatttgggtc agatataagg gggaagtgc aatatgaatc aataccaacc ttgtatactt 180
 gttaccctta ttctgattgc atgatgggtc aatgcttagt gcattcccaa taacatgcaa 240
 cgtatggtga accgttatgt gatgaagtcg gagcatgatt tatttattga ttgccttcct 300
 tatgagtggc ggtcggggac gagcaatggg cttttcctac caatctatcc ccctaagagc 360
 atgcgcgtaa tactttgttt cgataactaa aagatttttg caataagtat gtgagttctt 420
 tatgactaaa gttaagtcca tggattatat ttaaacacac cttcca 467

<210> 6075
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-A1
 <400> 6075

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aagtttagcta tagcgcatte tggtatacac gctactgcta ctcttttctc ttttttccct 180
 ttttcattta tttttcttca cattttatnt tttcttttca cettatttga tttctttcat 240
 tctcaattac ctttctatnt gctttcaatt taattttata tccttttagca gtagcgagtt 300
 tagaagaaaa cacgttgcta caaaggacgt agcggttagcg cggttcaata tggatcgcta 360
 ctactatgtg tagcctatcg gctaagccgt gggaataat 399

<210> 6076
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-047-Q1-E1-A2
 <400> 6076

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 gtgggttaaac ttatttagta tagcatttat ttgaggcact tgggcctaata attgaaatat 180
 taagatagag atttaaatta tgtactcttg ttttgtaaac actatcttgc aattgcttcg 240
 tggaccatgg gagggatgat tcctagaagc catgttttcc aataatttca acagctctgt 300
 gttaagtagc ttagttatta atttttatnt ctgtagtata atcctgggag gttgctggac 360
 caggaaacat aatctcatcg gtaatttcct aaggaaaata ttaggggttc tctgttgatga 420
 attttttt 427

<210> 6077
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-A3
 <400> 6077

gtgtccattg gggtcagctc gatgaaaata ggaatggtta agctcaaaat tgaacaattc 60
 atccatcaaa ggggtccctt tgatggataa tttgatagaa caacactatg gaaaaagggt 120
 gtgaaaaaat tttcaaaata tcaaattgaa aaaaatcggc cgctctaaag gtttcaagct 180

tactttcccg tgcattgacgac tttttacctc ttctaaagtg tcccctaatt tcaattt 237

<210> 6078

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A8

<400> 6078

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tgaactttgt tgtgtacacg gcattcgcca agaattacac ggtgaagaaa gtcgagcccc 120

ggtgaacacg gtttgctgtc ggtcacaggc gtacgttttt catcctcttt gttgtgtatg 180

taccgtctac aaaaccagtt cgatgtaatt aaatatcgcc caaaattcct gtagctgtgt 240

tcatttgaat aaatataaaa ggtgcctttg gaacagaaaa aaaaataaag tcacaataaa 300

aaaaataaaaa aaaaaaatac aatagaacgt aacatgcaaa aaaaaaactg cacacactaa 360

caaaaaaggg gccgccctaa aggttccaac ctt 393

<210> 6079

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B12

<400> 6079

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caccattggc gctttccgtg ggaagtgata gcaatggaag cggagctgta gctcttctga 120

aaattgcaag gatcttttca caaatctatt caagccttaa gaccagaagc aagtttaatc 180

ttctctttgg attaacatct ggctgaccct acaattaaaa tggaactagc aaggttatca 240

atTTTTTTta cagcggcttg aagttttgac caacatgtgc gtgatattat tgactatgca 300

atttacttaa gtatcattag ttcttagagc aatgatctct ggatgcatgt atcaaagcct 360

ccagagaagc cttacatcaa gcaaactctt gaggatTTTT cggatgtctc caaggaaatg 420

ggcatttcag tcgcac 436

<210> 6080

<211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-B7

 <400> 6080

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 tgatgaccac ttcaaggaac cttctagtct tgaatgtgta agattagtga accaaatagc 180
 cgaagaaaac tgggaaagat tcgcgtcaga agagatgaaa acgttgcaag ggcacctcct 240
 cagataccca gtgaaggtag agcacgatgg taagatcgtc ccgctgcccc accaagaatg 300
 cttccccgat gttggcggca agatctgcgg cgctccgacc tcgcttctctg attcgctgac 360
 gatgtagcgt cacagtactg acttctcttc aggggtccaag ctgggttcttt tgctcacctg 420

<210> 6081
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-B8

 <400> 6081

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 caaggccgac gaggaatgct ttgaaacctg ctacaaggag ctgaccaatg gcggcgaaaa 180
 actcgacaat ttgtgcacca gcatagaggg ctcgacgacg atcggcatgg ctcagctccc 240
 cgaaatccgc agcttcatca aggagaacaa cggggcgcat gccagtgga attgcatag 300
 gtgtcgccct gcaaatacga agaagacacc cgacgatgct tccaagaaga acgatgccga 360
 gaaggccatg gctgtcctgg atgtgctcgt taacaaagtg accaagtaca gaaaaacaaa 420
 ctctc 425

<210> 6082
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C10

<400> 6082

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gagctatgtg cggaagatga ggaagcctca cgctgggga ggagaacctg agctgctcat 120
gtgctcacat gttcttgga tgcccatcac cgtccacatg tacaccaagg gcaccgataa 180
ccccaggatc atagcagagt atggccagga gtacggcaag gacaaccgg tccgtgttct 240
atacgacggt tatgggcact acgacgcgt gcagccatct cttgtaagaa cacaaccaag 300
actgagagga gcgtagctaa ccggagaatg gtgcgctatg taagcttctt ctactacttc 360
tctagggcag ccgcataaat tccgacatct gctgcaactt ggtttcgttc gagttggcag 420
atcacggtat agcaca 436

<210> 6083

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C11

<400> 6083

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agtgaattgt tccagctttt caatctgcgc gagctcgaca aatctatcat cagttgctac 180
gttctgtaag tgattatatt ctaccccatc tcgttcatat tgcctgcact atatatatgt 240
cctaactata ttgttgtgtc cgctattata catgcagaat gaagattaag gaatgcagag 300
taaggaacat ccatgatgtt gggttcattg acccacacat cgttaatgaa tatgtgttgg 360
agcatcacc cgccgacatg gaggcagacc tgtggcagtt tcttaciaag caggaactca 420
aaagtgatat tctatttcc 439

<210> 6084

<211> 203

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C3

<400> 6084

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cgcatgtgtc accaagatca cagttcacat cacctcctac tgcaacaggg aacttggcga 120
caacgctaac gatggacaac attaatacacc atgccacaca tcaccgctac ggcaacacgg 180
gccacaactg ccatgccacc acc 203

<210> 6085

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C5

<400> 6085

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tgaagttatc ttattcgatt gagtctttaa agatttgaga aactttaatg tatgtcttgc 180
cgtgcgtatc tgtggtgaca atgggatacc acgtgattca cttgatgtat gttttggtga 240
tcaacttgcg ggttccgaca atgaaccaat gcatagggtt ggcatatgtt ttcgtcatga 300
ttctcctgta ggaactttgg ggcactcttt gaggttctat gtgttggttg aatagatgaa 360
tctgagattg tgtgacgcat atcgtataat catacccagg gatact 406

<210> 6086

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D10

<400> 6086

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ccttagtagc ctctcttacc gggaaatgtc tcctagtgtt tccactgagc catggtagct 120
tgctactgct ccggaacact taggctggcc ggcatgtgtc cttcttcgtt cctgtgtctg 180
tcccttcggg gaaatgtcac gcgatgaata ccggagtcct gttagcccg c tacagcccg 240
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gttcgatgct gggtcacgga tgcctgtccc tgtaagttag tgccactttg ggttcacgac 360
tagccatgtc agccccgggtt ctttgtcata tggatgctag cgacactatc atatacatga 420
gccaaaaggc gcaaacg 437

<210> 6087
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D11

<400> 6087

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cagcaatgcc gtgaccgcg aggtcatgg aaaaagatat ccagactgg tgcgtgacta 180
aatgcgtca actaacgatt ttccattgat ctgggacatc catctactgc tgaagaggaa 240
ctgatatctc catacatattt atttacatcg tacttggttc ttagcttgat gaaatacttc 300
cagttgttgt acttaatgaa catgaaatga tctgttggtt cgttgtttca gacattgaaa 360
tgatgcagac tgttatatgt ttagacgata aaatgttaaa tgtcgcattt ataggaac 418

<210> 6088
<211> 416
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-047-Q1-E1-D12

<400> 6088

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caaggacgag gaggtccagg agctcgtcat gcagcggatc cgggaactgg aggagaggca 180
cgaggagggc ctcaatgctt aggccaggc ccatgccggc aaggtggacg agctggaggc 240
agagcgtgac gggctgaaga ggcaggtcca ggagctaacg gggtagaggg acgcggccaa 300
gggtgctttg gtcacgcat aggccgtagt cctcgagaag gccgcgtac tctccatggc 360
caacgagtcc atcaaggaca tgaacctgaa gctgganggc attgaaggga cactct 416

<210> 6089
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-D2
 <400> 6089

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 gaaggaagat gaggggccc ggaggaagca gaatgccgag gcgcggtcgg cggcgagctc 180
 cagagcaaga cggcggccag agggccgcct gtcctggacg cggttatcta gaggaagtgt 240
 gggcgccata ggaggagggt ggtgtggtcg aacgggctcg gaggggtctt atttataggc 300
 ggggcgagga aggggatcga gagcaccggc gagctctctt ggaggagggtg cacgacgacg 360
 agaggcgctca gggagagaga ggcgggagtg gtcaggggtc a 401

<210> 6090
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-D6
 <400> 6090

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 atgtgcaaaa aagggaagat ctgagatgga gcaaaccaat tcatggctct tctaacgcga 180
 atgtagatgc gtcatacaat gaggattaag cagcaccatg tgccacatga gctgttatgc 240
 atgatgaggg ggtcaattc attgccatag caacgtagtt tataacatac gtaccgaatg 300
 cggaagccgc tgaaacactc gcccttcgaa ttggtcttct tccggctgag cagccaggat 360
 gtaacaaact gatggcgcca tggcggaatc tgattgttcc ctggttatcg atgctatcaa 420
 cgatgctgag aact 434

<210> 6091
 <211> 429

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-D8
 <400> 6091

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 atgaggtgct cttttcattg tcttccttat gagtggcaga cggggacgag cgatgggtctt 180
 ctctaccaa tctatccctc ttggggcatg cgtagtagac ttttgcaata agtatatgag 240
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 ctttattatt accgagcaac ttctgccgt atcatgaacc ctttatttac ctctctcaa 360
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 caactctcc 429

<210> 6092
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-E10
 <400> 6092

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 tccgtgctgg tgggtgcagtc ctatgggagg gcggggcgcg cggcgccgc gtcgacgtct 180
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 tccatggggc acccgccaag gcgcccacga caacattcac attctgacct tatgctttga 300
 tagtagtata gtttggtaaa gcttgctagc acattgatta attaatatt taattaggga 360
 gcgcctaatt ttgagcggg aattaggaag tgtctgatga tcagtcgagt gatgttaatt 420
 tgggtgacag tcaaacatt 439

<210> 6093
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E12

<400> 6093

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ccttcatgga caagcagaac gtgaggtctg actgcaagag gttcagacct gtgctgctgg 180
aggcactgga caacctcaac cagtaaattt aaggcaactt gccaccatt tttaccattc 240
gtttcgtgaa atttgatgtt cattctctca tggcgtgtat gtatggtcta aactatagag 300
attttgtcta ggaattactc gtgtaaactg tataaattaa attgcccggc gctgcaaaga 360
tggaacgaaa ttcattgaaa aaaaaaagg ataatacaaa aaaaagaaaa aaaaagaaaa 420
aaaagaggaa caac 434

<210> 6094

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E6

<400> 6094

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cgagctccac aaggcgggccg aacaggtcat gaagggcctc atagttcggc tgtggcctaa 120
ggaggccatg tctgggagct actttggcct ggtgcggcgg ctggtggatg cgtgctcgtg 180
ggttgaagtc atcaagcact ccgcctgtat tgaaggtgcc cgtcggggccc ttgccgcgcg 240
aaaggtgcac tggggcaaga tggatgccca gaagctcgtg acggaccgcc caccagaggg 300
caaggagcat tacacgcccg agatgtatta taagagtgtg ctgaagggcg cccgcactat 360
tgcggtgag tgcctcaaag atgtaattt tgagtagact cgcattttgt tatcctgtgc 420
gttgaaaac 429

<210> 6095

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E7

<400> 6095

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gacgcaggac ttctttgtcg ttaccaaagt ctacagtaac gaatttgact aggttgctct 120
cgaggaagtt cttaaaattc tggcactcaa catcggcacg gcatatgtgg tagaccaagc 180
ataagtcacg cacgcaaacc tggatcacga cgggcttctt cctctcttca tccttttagat 240
ccttctctcg tcccaggact atggtgtact caacatctag cccagcgacc cactcatcat 300
ctgagtcttt gaacatgcat ctgaagcgag aaaggcatcc ttccaccatc gcggaagaac 360
gggtgtagat gacgtcgaac tcatcgccgg tgatgggtct aaccttgtag tcaccgccga 420
tcgtgg 426

<210> 6096

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E8

<400> 6096

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atctccctgg gcggtgcatc tcgcgcgtct tcagctacct tctcagcctg gatccggatt 180
ttgacttcaa caccgcgata gccccctgc ccggggctgt acagggcgac ctggcgagat 240
gggtggacga tcatcttgac gacctgatta aggagtttgc tcttgctgac gacgtggctg 300
cactcgcaac caaggagggc ggagccaacg atgatggcga caacgacgat atgggcaaca 360
tcgcgtcccg ctaggcctgt acttctttgc tcttcctg 398

<210> 6097

<211> 266

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-F11

<400> 6097

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agcggcacgg cggtggctgc agagtttttt ggctgcagag ttagcatagg gtgttttttag 120
 ttcttagttt cttagtttt tctagctttg accgatgtat ggtccgaaaa tgtctgtaat 180
 ttttaagcttt tttgtgtaac tttttcttgc tgtgtttata ttttttttct ctctatgtaa 240
 tgacatgagc atttttttaag aaaaat 266

<210> 6098
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F12
 <400> 6098

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 cggaccattc cggaactcct cgtgacgttc gggatctcat ccgggactcc gaacaacttt 180
 cgggttactg catactaata tctctacaac cctagcgtca ccgaacctta agtgtgtaga 240
 ctctaggggt tcgggagaca cgcagacatg accgagacga ctctccggtc aataaccaac 300
 agagtaatct ggatacccat gttggctccc acatgctcct cgatgatctc atcgaatgaa 360
 ccacgatgtc gaggattcaa tcaaccccgt atacaattcc ctttgtcaat cgatacgtta 420
 cttgcc 426

<210> 6099
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F3
 <400> 6099

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 ccaaggcgta cgtacgctgg agtttggggg cgcaagatca ataagatggc tcggtgaaac 180
 agacgatgct tagggacgag ggcttgtctt tgtgatttgt caaactcgtg tttaattccg 240
 atgtctgtct ttagttttcg tgtgttaacg taatttggtc atgccacctg accgccatgt 300

gctctgccct gcctctacct cgcggcaatt ccatggagga tgaaaccttc tggaacatga 360
 ggaggaata aa 372

<210> 6100
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F6
 <400> 6100

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 cctacctcat gcattctact gaactacaag aattcaatat cactactgga gggattatga 120
 atggtgacaa taaatgcaat aaaacatagg tgtgaataac atggttaaata tgaacttacc 180
 tggttaagttg atgaagatgt taacgctctt ggaaactttg ataaactatt cgttactcca 240
 agaaaatcta tatagtcaaa cattgcattc acataagcaa caatcctagc aatcaattat 300
 accaatcaaa aagcaataaa taaagcaata atgatttcaa agaaaatcaa ataaaattcc 360
 aaagaaaact ctaaagaaaa caagggcgaa accaactcac agaatatcaa tcaatactcg 420
 cataacaact ctaaact 437

<210> 6101
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F7
 <400> 6101

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 ccttagcaat cgctaaacca actccgagag gttattgacc acgccggagc acgattaacc 120
 tgaccacgag ggtctgtttc ctgagagcaa acgaagaaca agcaagaaac tgagattgca 180
 atctggatat tgcgaatata agatgaaagc tttattgatc aaggtggggt tctgtgacgc 240
 ctttgtctgg tcgttgaaca caaacgaagt acgcgaagtt gcggctatgg cgaactttta 300
 atctaaacaa aacccaaagt ctaaacgacg ccctaagggc tgtatatatg gaggaagagg 360
 gggaatttcg tggcccttgg ggaaggggtc cgaaaccaac cctatctctt gtttcccc 418

<210> 6102
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G1

<400> 6102

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ctcgttgttt ttgcatgcta gcaagtgact ccgggatgcc agttttaaga tttcgcttgt 120
gttgaaagat attattatta ttactgcttg tagcctacct gggataccgt catattttgc 180
tgattatgga acccctttta tcctgcttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaagc ggccgccta aaggttccaa cttacttac ccgtgcatgc aacgtcaaac 360
cccttctaaa gggtcaccta atttcaattc 390
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<210> 6103
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G10

<400> 6103

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ccttcaagag gcagcagata agtaccaaaa caccaacttg tatctgaaga acttagatga 120
tactgttgat gatgaaaagt tgcgagaact ttttgctgag ttcggaacta ttacttcctg 180
caaggttatg cgtgattcaa atggcgcaag cagaggttct ggatttggtg cttttaaatc 240
cgctgatgat gcttcccagag ctcttgctga aatgaacaac aagatgggtg gcaataaacc 300
actttatgtt gcactcgcac agcgcaagga agacaggaaa gctaggctgc aggcacagtt 360
ttcaciaatg cgtcccgttc caatggctcc aaccgttggt cctcgatatgc aaatgttacc 420
tcctggtggt ccagtcggtc aac 443
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<210> 6104
 <211> 436

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G11

<400> 6104

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aattgtggaa gatgatgcac ttgatgatga tctcgttatg cctattgctt gttgtgatga 120
ttattattgg gaagataatg atacttttat gatcttgaaa atctttttgg cacttgcttg 180
gaagaatatg ataattgcta tactattggg gctatccata ctattaatga tgagagtgat 240
tatgcttatg atatgaaaag gaccaagctt ggggatgcta tgtttgatga gagtgacatt 300
tttgagaata tattttctgc aattaatgtt tgtcccaagc ttggggatgc tacgtttaat 360
gaagatgata cttttagtct gccaaagttt gatatgcaaa tttataatga tgatagaatg 420
cctcctactt atgatg 436

<210> 6105
<211> 471
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G3

<400> 6105

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tccaaagtca tgatattttt gttatagaat tatttttcat agtctaaaat aattagagat 120
aaatattggg gccatgcgta gctatcatca tgggtagcaa gttatttctc tatgcacaat 180
gccttcctct caaagtctgg ctctttttgt tttgcgaggg aaagtcttgc tctttttaac 240
gggcaacgat gcaacgactc cttatgcgat acacaaataa gtgtaccccg ctaagctcgc 300
acgtatacca caactcattc actctattgt caaattttca cacactatac tagaagttta 360
ttttaaaaag aatgcctcgt tagcactagt aattctgtta ccaaataaat gtacatcctc 420
ctttagttcc tccaagtcta acaaaacttt cccgtaaaaa aatgtcatat c 471

<210> 6106
<211> 421
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-047-Q1-E1-G7

<400> 6106

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cacggacgag tcattctttca acaacatacg gaactgggta cgcaacattg agcaacatgc 120
ctctgataat gtgaacaaaa ttttgatagg caacaaggct gatatggatg agagtaaaag 180
ggctgtttct actgcaaagg gacaagcact agccgatgaa tatggcatcc agttctttga 240
aactagtgcc aagacaaacc tcaatgtgga gcaagttttc ttttccattg cccgagatat 300
taagcagagg cttgctgaga ctgattccaa gcccgaggac cggacgatca agattaacaa 360
gacagaaggt tctgagaatc cagaatctca gaaatctgcc tgctgtggct catgangagt 420
a 421

<210> 6107
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G9

<400> 6107

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agacatctct agtcaattca attgctaccg gtggatacag cgaggacatg attccaactg 180
taggctttta tatgcggaaa gtcaccaagg gaaatgtcac aattaaactt tgggatcttg 240
gagggcaacg tagattccgg actatgtggg agcgctactg tcgtggagtt acggctattc 300
tatacgttgt cgatgctgct gaccgggata gcgttccgat tgctaaaagt gaattgcatg 360
acctgctgac aaaacaatct ttatctggga tccccttact tatecttggc aacaaaattg 420
acaagtcaga ggcacttt 438

<210> 6108
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H3

<400> 6108

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caatgggtca tttcttagcc ttatcttaaa taataactag ttattcctaa aaacgtgggtg 120
agacatattg ttttaagaga ttatctcatg tcttctctta aataagagaa gacaagcatt 180
ctcttagggc atgtaaaatg gttgataaga cagtcttatc ttaagtcttg catgtaatta 240
gaggcgaccc attaggtcat gtacaatggc tcataagata gtcttatatt aagtcttgca 300
tttaatttag aaatgacaaa aaacatgtct acaatgggtc atctcttagc cttatcttca 360
ataataacta gctatttcta aaaatgtggt gagacatatt gttctaagag attatatcat 420
gtc 423

<210> 6109

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H5

<400> 6109

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa gggggccccc ccaaagggtc caattttttt ttcccttcat tcgcactcca 240
aaccctccc aatgggtccc ccaattttat ttccagggcc ctttttttaa aacctttttc 300
cgggaaaacc ccgggggttc cccaatttaa ccccttttga aaaaaccccc ttttcccaa 360
gggggtttta tccaaatggc cccccccctt ttcccttcc aaaaattttc cccc 414

<210> 6110

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H7

<400> 6110

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 aactttctcc atattttctt cacaaggaat ggataatgga gcagtgggag aagaacttct 180
 atatcactgc gttagcaggt gcaaacaatg gtagttctct ggtgggtcatg tctagaggaa 240
 cacaatatgc acagcaatcc tacaaagtag gtgactcggt tcccttcaag tggataaaca 300
 agaagtggaa ggagggtttt tacgtcacag ctatggccac tgcaggaagc cgatgggcag 360
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<210> 6111
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-H9
 <400> 6111

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 gcagcatgaa gatcatccag cggtatctcag aagccagcag cggagaagca gtgtggcttc 180
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 ccaccacaac accccca 437

<210> 6112
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-A1
 <400> 6112

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aagttaacac gggctggaaa ggggtcaacgg aataatggac tgttaatggg tataaagcca 180
 tacactattc attatgggtc agtttcacct tgggccttta gtgggcccac agttacaaag 240
 gaccttgcac gggccgaaag acgttatggg ccatacatgg gccgaaagtt acaactgatt 300
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<210> 6113
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-A6

<400> 6113

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 gaatacatgt cactagaaca taatattctt cgagcactga gcctctatta aactagcgcc 180
 ttcaaggact tctttaaaagt agtgctcggc cgatactcgg cccacggctg aactctgggt 240
 cgcaatagcg gtggcctcca tctctgcca gtatgtcttg acatgggcca gagccatccg 300
 cgcaccctct atgcacgccg acctcttcat agcgtcgatg cgcggcacag caccaaggaa 360
 ctgttgcaact aaactaaaat aactattcgg cct 393

<210> 6114
 <211> 201
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-A9

<400> 6114

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 aaaggaaaac aaatcaaagg ataaaaagga aataaaaaaa aaaattttta aaaaaaaaag 120
 cgggcgcccc aaaagatgta aacttaactt tacctgcaat gaaagttaaa agccttccaa 180
 aatgttaacc aaaattttatt t 201

<210> 6115
 <211> 294
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B11

 <400> 6115

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 tgcagtggga tttgtagggg actatgctgc gctgtgtttg ggatttgaaa tagaacgatg 120
 ggagatgtgc cacgctctta aaatcaaaca cataaggcaa aaaccaatag caaatgtgcc 180
 agccaaatct gcaacatgca tgcacataaa aaattggccg cccatcagga tctaaactaa 240
 cttacgcgtg tatgcgaatt catacccctt cgatagaggc acctaaattc attt 294

<210> 6116
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-B5

 <400> 6116

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 gagttcatcc gcgctgcctcc actattcaac aactttggtg agttctctctc ctctagatct 120
 tgtaggggtt ttcacgagtt tgtaggtagt tcatcctcgt tcttcgctgt agcttgtaac 180
 ttttgattca gacttagtac cctcctacgc ggcggtagac atggtaatca tttttgttat 240
 tagaacatct cccttgcgta agaaaaccaa tctggacaca tgaactgctc acgtactgca 300
 acttaggtct aaatattttc cattctctga agtgctgtag atccaaaatt gtagcatcaa 360
 tctgtgaaat ctgtntttcc aacacttagc aattttccca ttctcagatc tgtgaaatta 420
 atatttgatg gtg 433

<210> 6117
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B8

<400> 6117

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catgcacctg ctgccccctc aggtacagaa tctgtatat ggctggtaag acagaaccac 120
tgctgttagt agtacataga taggcctgta atttgtgaca ctaattcttt ttctctctct 180
ccccgatgcc aacggcaaag ccttggtcat tattaccaat acgaactaca gactgcttgt 240
agcactagat aagacttggt tattcgatat ttcgatccct tgagttttga tggccatttt 300
cactgggacg ctcaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaacaaaa 360
aacaacaaaa aaaaaaaatt caaacia 387

<210> 6118

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-C12

<400> 6118

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gtacacgctc ggctacaaga ccgtcctcag gaccctcagg aactccaagg caaagcttgt 120
gatccttgct aacaactgcc ctccactccg caagtctgag attgagtact atgctatgtt 180
ggcgaagatc actgtccacc actaccatgg aaacaatgtt gatttgggaa ctgcgtgtgg 240
taaatacttc cgagtctgct gcctgagtat catcgacctt ggcgattccg acatcatcaa 300
cgcaacacca gctggccagt aaacctgtgc atgccatttt cagtgtctcg tctgatgcca 360
ttttcttgct ggacttgatt tggctctgtg tacatcattt atcagtcaat caagtttgat 420
ggga 424

<210> 6119

<211> 457

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-C6

<400> 6119

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cgtggatggc aggtatggtt tcctccttcg acgtcttagt cgcggtgggg tgccagatct 120
 ggagttcgat ggcgtgttaa ggggtgtgtc cccgtctgat tcgttcaacc gcaatggctt 180
 cacttttggg gagccacctt gaaagtcctc aaagctgcat atcagtgatg gcgccacgtc 240
 gagttaaggt gaggaggtga tccgtcattc tttcttcgg tggctgttgt gatgggtgcag 300
 gaggcaggtg acgggcattg acgtcaagct caaagatggt ctactatctt ttcagttttg 360
 tcatgtaggt ctttacatga cttgtatttt gttcaatatg atatgaatga aacgcgtatt 420
 gccaaagaaa agaaacattc cttgataaat attaatt 457

<210> 6120
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-C8
 <400> 6120

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 gtgccgacag gctggggctt ttcctaatgc tgtgcacttg gacgagctga acatgctact 120
 aagctatagt tgtccggagt actgggagaa gagaatgcag atggaacgag ttgagcgtgt 180
 tcgtctggct aaggagcact gggagtcca gtgcagagca ttcttgggct tctgatggaa 240
 catgtagact tcgtacaaaa atgggattcc ccattgctgt tggttagatc ttgatttggc 300
 atgactgtaa tatatttgta tctatcctgc tgaatgaatt ggtctgtaat tgggaggtca 360
 cttgtgcgcc tagatgtaaa aaggggtaaa cttgtagtga ttatctgaat gtaaaattgc 420

<210> 6121
 <211> 176
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-C9
 <400> 6121

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 tatatcacca caacaatgtg ctgcgtatta gcattaatga gttccgtata tcttgagacg 120

aaaaanannn nnnnnnnnnn aaaaaaaaaa gcggccgctc tanaggatcc aagctt 176

<210> 6122

<211> 276

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D2

<400> 6122

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gtgttatgaa taacaaacag attaaacaaa ccagaaatga cagtggcaag attacttta 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaagcggc cgctcaaaag gatcaaagct aacgtacgcy tgaatgcaac 240

gtcaaagctc ttcaaaagtg tcaccaaatt tcaatt 276

<210> 6123

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D6

<400> 6123

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atctaactgc tccagtgac agctgattga tctaggttca ctaacaggac gcgagaggct 120

atggaagtca ggtttgttcg tatggataat gtttgggagc agtgataatc gatgagacgt 180

taatctcaat atgtacgata ataattcctc aagatataag tgtaattcca aatattatt 240

cgtaaggaac ttaaaaagat gccctttgat ttgagaata gtgtgaaaga atttatgatc 300

tcggacgata attttaatgc attgctagat gaacaattgc gtacagttaa agatttgat 360

aggaacgtct atatacttc gattga 386

<210> 6124

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-F10

<400> 6124

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tacgagggcc acggcaagtc ggagggggtc cagggtaca ttccctcctt tgacctctc 120
gtcagcgaca cggacgcctt cttcaccgcc gtcgtgcctt ccaaggccaa cacggacctc 180
ccccgcttca tcctcggcga gtccatgggc ggcgccgtgg cgctgctcct ccaccggatg 240
cgcccggcgt actggaccgg cgccgtcctg gtcgccccca tgtgcaagat cgctgacgag 300
atgcggccgc atccggtggt ggtgagcgtc ctcaagctga tgaccaacat catccccacg 360
tggaagatcg tgccgaccac ggacgtcatc gacgccgcct acaggatg 408

<210> 6125

<211> 455

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-048-Q1-E1-F5

<400> 6125

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ttgcataggt gagctttcgg gcatgaagta ttcttcgctc tctttgagtc tgggtgaagc 120
tttccgcaag atgtcatggc gcttctccat gcatcccgcc caaccactgg tttctccagg 180
gtgcccgtca accgtccttc acccagtact gtgtattgaa ttcttgtctc gagtctcgaa 240
atcttgagga gtctgaaga tgaagtcctt gcagatgtta tcatgaagtt gtcgtctttg 300
acataaagcc cttcattctc acaccactcc cgagcaatca taccaaacc cgtctactac 360
agcgtagcat taanactata tacgtcccgg gcttggtaac acggaggtgg gttcctacct 420
catgcattct actcaactac aagaatcaat atcat 455

<210> 6126

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-F8

<400> 6126

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tcccacctgg actaaatacc ggatggaatt gaagcgtctc ttgatgtgct tggttctctt 120
 gtgaaatctg gattccttcg ccaaggtaat tgcaccagta ttgtcgcaaa agattttcat 180
 tggacccgat gcactaggta tgacacctag atcggatatg aactccttca tccagactcc 240
 ttcatttgct gctttogaag cagctatgta ctccgcttca cacgtagatc ccgccacgac 300
 gctttgttta gaactgcacc aactgacagc tccaccgttt aatataaaca cgtatccggt 360
 ttgcgattta gaatcgccg gatcagcgtc aaagcttgcg tcaacataac catttacgat 420
 gagctctttg tcacctccat aaacgagaaa cata 454

<210> 6127
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-G10
 <400> 6127

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 tacatcgacg ccaccaaccg gcgcggcgac ctacactacg agctcggcga gaatgagttc 180
 gccgacctca ccaggagga gttcctagcc aggtacgcgt cgtcctacga tggggtcggt 240
 gatgatactg gcatacagtt gcctgtgggc ggtggcgacg ccgagctgtg gtcgtccggc 300
 ggcgacaatg atagctcctt ggaggctccg cctcccagct gggactggag atccaagggc 360
 gccgtcacac cgggtcaagtc ccaaggcgca ggatgcgcta actgctgggc gtt 413

<210> 6128
 <211> 156
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-G2
 <400> 6128

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 cgctctgagg atcaaactta cgttgacgtt cagtcgacga cgcattgacat caagttaggc 120
 acctaaatgt aactgactgg acgactttat agatgt 156

<210> 6129
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-G5

 <400> 6129

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gtgacggctt catcgacttc agcgagttca tctccttctg caacgccaac ccgggggtca   120
tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgttccagg   180
agccgatcca tctacgtacg gtttcgtata tcaatttcat gcaactacct actccggtcc   240
cgatccagcc tcagcttcac ctgaggcccg ccctaaattt gtttgatcaa ttcttttgct   300
actagtagta actagtgatg atcactgttg catcatttat ttattttatt tatatatcat   360
cacaagtttc ctgtgattct tttctttcta tacctttttg tcgatcgctg gctccagctc   420
gatcgaacga tc                                                         432
  
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<210> 6130
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-G7

 <400> 6130

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gtgacggctt catcgacttc agcgagttca tctccttctg caacgccaac ccgggggtca   120
tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgatccagg   180
agccgatcca tctacgtacg gtttcgtata tcaatttcat gcaactacct actccggtcc   240
cgatccagcc tcagcttcac ctgaggcccg ccctaaattt gtttgatcaa ttttttgcta   300
ctagtagtaa ctagtgatga tcaactgttg accatttatt tattttatat cgtcacaact   360
ttccagtgtt tcttttcttt ctctaccttt ttgtcgatcg tcgggtccag ctcgatcgaa   420
cga                                                                    423
  
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<210> 6131
 <211> 254
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-G9

 <400> 6131

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 acggcgacca caaggagaag aaggacaaga agaagaagaa ggacaagaag cacggcgagg 180
 gccacaagga cgacgacggc cacggcagca gcagcagcga cagcgacagc gactgagcca 240
 gctccggccg cget 254

<210> 6132
 <211> 162
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-H11

 <400> 6132

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 tctttttatt gacaggggtt ttgatttggt tgatgaaaag aagaatggag taatagagtt 120
 tgatgagttt attcatgctc tcagtgtctt ccatccatgt tc 162

<210> 6133
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-H5

 <400> 6133

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 aacccatggt ggtgtaccgg agcatgtgca tgtagtttaa ttttgaattg tgcacctgaa 180
 atggctagaa aaccaattta atgtgtaaaa tgttcaaact aatcctgaat aattccattt 240
 cttttacgac acacatatat ttgcttggtc actgtagata aagggctag catttcaaac 300

accgtccatt gccgctgtga ccccattatg taattcaact caagatgaaa actcatgtat 360
atccccacaca tttta 375

<210> 6134
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C10

<400> 6134

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acttttgcaa taagtatgtg agttctttat gattaatgtt gagttcatgg attatacaca 180
ctctcaccct tccaccattg ctagcctcta tagtaccgcg caactttcgc cggtacatta 240
caccacccat ataccttcct caaaacaacc accataccta cctattatag catttccata 300
gccattocga gatataattgc catgcaactt ccaccgttca gtttattatg acatgcttca 360
tgatgaggac atcaatacca ttgttacacc cacatcccct gctactatac ataatggacc 420
aat 423

<210> 6135
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C8

<400> 6135

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caagtcggct ggaaaagaag tggccgagtg cccatagtcg ggtgctagaa aaaaaagtca 120
aaggttgact ggccttgaaa aaaaagtac cgggtgagat ggccggctgc ccgagagtcg 180
gctggaaaaa aagaagaaga aagaaatgtg cgtctgactg tcagatgtgc gtccgaccgc 240
tggctgcctg gccggctgca aagagcgca ctgttgtgtc ggggtctgcc tgcccagccg 300
gctgaggaaa aaaaaaaaaa taaaaaaaaa aaaaaagcgg ccgctctaga ggatccaagc 360
ttac 364

<210> 6136
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-049-Q1-E1-D5

 <400> 6136

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 acgcgcacgc ctgcggcccc gacctccac cgtaatcagg aactcgccga aattttcgtc 180
 cccctcgctt ctacgcagg tttttccgtc agggacgac gacagaatgt catgcagctg 240
 catctccggc cgcgccagga taaaaagccc attttctgtc atgatttttt tgttatatca 300
 gtaggagccc accacatcta tgatgatacc gggttttgtc acaattatca tcatagaact 360
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<210> 6137
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-049-Q1-E1-D6

 <400> 6137

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 ccatgtactc ctacatggac tctcacgct acctttacca aatcgtgttc acacacttag 180
 ctcacacaca gtaggacatg ttcacacacc tctgattcat ccccgatgaa tcagacctga 240
 ctcaactcta agcagtagca ggcacgaca acaagcatga atgagtaggc acaacagggc 300
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<210> 6138
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D7

<400> 6138

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agagcttggg cagagagAAC ggcgtgtacc gcagatcggg acatgctgcc tcggcaccgt 180
caaacggaga aacgatgcac ttcctccctt tcccctggcg gacgggatgc ggccggatca 240
gtgaccaacg atgagagaga gagaggccac cgcactccct ttcctcggc ggacgggatg 300
cggccggatc agtgatcaac ggtgagagag agagaggcca ccgcagcctt gtgtgagata 360
ctctgaagag cgacaaacca ggtaggcagg ctccattgta tata 404

<210> 6139

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E6

<400> 6139

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gagaagcttg ctgtttttga tgctgctatg aaatacaaga acgaagggca tgacactatc 180
atcctggctg gtgctgagta tggcagtgga agctcaaggg attgggctgc gaagggtcca 240
atgcttcagg gagtgaaggc tgtgatagcc aagagttttg agaggattca ccgtagcaat 300
ctcgctggaa tgggcatcgt ccctctatgc ttcaaggctg gggaggatgc cgacactctt 360
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<210> 6140

<211> 327

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E7

<400> 6140

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 aaagttgcag actactggga catggctgtc aacttcacgg aagatttgct ctgagctaaa 180
 atttctgttg atgacagtga gagcgatcgc tgcggatcac tatactttgt aatgtcacca 240
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<210> 6141
 <211> 235
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E9

<400> 6141

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 ccggtgtgtg ccacgaaccg ggaccaatac tctgtgttca taagcaggac ttagaaaatt 180
 tccagtttca tgcaccattt tccccgcagc acccggaat tcaggtctgg aacct 235

<210> 6142
 <211> 328
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-F10

<400> 6142

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 aaacctgatg tattagcggc agccatgggt ttacaccatg gtggttatgg aatgacaatc 180
 ctatgagcag catagtaatt catttgaact ttctcggatt gtttcgaaat ggattgaatc 240
 ttacatgaag tgcaggacga tccagccaca aatatgttga cgattcaaca tggatcatctg 300
 cacagaatac acatgctttc acaaattc 328

<210> 6143
 <211> 297

[illegible]

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gacacaacaa	tatagttagg	acatatatat	agtgcaagca	atatgaacga	gatggggtag	180
aaataaatca	cttacagaac	gtaacaactg	atgatagatt	tgtcgagctc	gcgcaaattg	240
aaaagctgga	acaattcact	cagatgaatt	tgtacatagt	aatgtttgaa	gtgatgc	297

ccggtccaga attcccggt cgacgggata ttaaataaag taacatgatg agattcacat	60
gataatccaa gtactagata ctcaagacgt ccataaccgg ggacacggct aaccatgatt	120
agttttataca ctttgtagag gtttgcgcac ttttccccac aagacttgat ctctccggt	180
gggattttcg cactacatga tgtttgagaa acagatgacc gagacatact ctttcaaaac	240
tgctagcacc ttacgatcgg gtagacagta ccatacctaca tccccacat ctgctagtct	300
accactgtaa gagttcgcac gacttagtca actatgctag agaccatagt agcttgtggc	360
tgcacacgga agtttctagt atgaataatc tcatgatccc tttgagcctg ggtgg	415

gggtcgacgg gaggtggcaa agacaacgat acgatccggc aacctgcat gcagatccag 60
aaatgcgctg ccaacagggt ttggctaaat ttccaaattt ttgcccgta ctatctatag 120

cgcgatcctg tcggtgtgct ggaatggcac aactcagtgg caccaatatg cacaacagta 180
gacacttaca acacatctgt gtgaccgagt agttaacttc ggttgcacca atattgaaca 240
tctacataga cgtaatgata actgaggcac cgacaatcga cgaatcgggtc acacacgata 300
atca 304

<210> 6146
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-F8
<400> 6146

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aaagaagagt tagtatgtag ttctagcaca tcaaatacaa caggtttctc aagctctaca 120
tttagtgctt tacgaaagat tgacaaggac aagatggcca tggcggtggg gtccctgcag 180
acaagtaatc caactatttc aagtttccag tgcacacagt ccttgagtca ttcattctgaa 240
ttatcatgcc cttctcgaat atcaacagga tctaccctac cttccaaaac tactaaggaa 300
ctgtttggca ttgagactga atactgtgtg gccaaaggctt catgtgcca ggtagtcaa 360
ctggggaaac cttcttcaag tcaatccaat gaagtctcc 399

<210> 6147
<211> 393
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-G2
<400> 6147

gggtcgacgg ggcaggacag gcaggggatt gagtcacctg tccaatggga aggcgccgcg 60
tggagaagcg tccacgtggc ccgccgtggt gggcgtggtg cgttggaggc gtgagaggcg 120
aggtcgtgac atgcttcgtg cgcggacaac gcaacgcaac gcaaacagtc tcgccgttgc 180
cacacacgtc actgtgtacg gactgtcaac ggtcaacgtt tgtaagagtg gagatggtgc 240
gcttttggaa aatcgagtgg tgcggtgttt gttactttct ccattcacag atataagatg 300
ttctattatt ttactttttt tcgattcaga cttatttaaa cacatttttag agcccgttg 360

aaatggatgt aagtttatac acctgtatatt att

393

<210> 6148

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G4

<400> 6148

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aggactcgac tcgagggggg attacggctg gagacgaatg agggctgagg atttaggggtt 120

tggagggggag gggaatataa agggacaaag ctgagtggtg actggggccgg gcctcgctgc 180

gtaagaaggc cggagtgtatt tctcccggtt tctttctttc gttctcttgt tctccttttc 240

ggcctgcaaa gaaacaattc ggtcttctca aaagaaaaag aaaaaaaca ttcggccccc 300

tcaaaaggaa acatacaaat gtctcaaaga caatacaaat aatttggtcaa cgccttttca 360

gtgcgtcgtc tgagtaggac ttgccggcgc tgccaact 398

<210> 6149

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G5

<400> 6149

gggtcgacgg ggtcgcattc agatttgac gctcacgctt aaagccttcg cggtcgcgga 60

atctgtgaca gacatggagt cgtcgttggc aacgggaccg gctgctgtac gggatatgca 120

gtgcgacctc gagtcccaag ccaacgccct cagcaagatc cagaccgaca tctccaataa 180

tcactaggtc cgcattgcagt tcaccatcca ggtcggcgag aatgaactcg tcctcacgga 240

gctggagctg ctgaatgaat gggctaactg gtacaagctg atcgggccag tgttggtcac 300

acaggacaat gcggatgcta atgccaacat caaaaagcgc atccagtaca tcacatctga 360

gctaataaaa acggatcggg cgcttaagga ct 392

<210> 6150

<211> 400

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G7

<400> 6150

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gtggagggtg aagctttggc tcttcgtcgc ctacgtcgtc tctttcgtct gcctggctgg   120
atcgggtgggt ttgttggtgc aagacgcctt gacagacaag ggcccttctg tgtggactgg   180
tgttgccggc gttctgcaat gtgttttctg gttgataagc gggttgacat actggacgtg   240
ccacaccgag gattaagggt caaaaatctc gcgaagacag acgtctagtc tatacccggtg   300
tgtggtcctg tgtaaaaaaa tatgttcatt ccagggcggg attacttggg gtccgtgtgt   360
gcatagctga ccgcttcctg aaatggaccc ctagcatcag                               400
  
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<210> 6151
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H11

<400> 6151

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ggtctagaat tcccgggtcg acgggaagag gcaatcaatg gtggaaggaa tacagtgcgt   60
ataatccatg gactcaacat tactcataaa gaactcatat acttactgca aaaatctaca   120
agttatcaaa gcaaagtatt acgctcatgc tcctaggggg atagattgct atgaaaatac   180
catcgctcgt ccccgaccgc cattcataag gaagacatct caataattaa atcatgctcc   240
aacttcatca cataacggtt caccatacgt acatgcaacg gaaatcacia cttttatcac   300
aagtacctct caaatcaca actactcatc taccatgact caaatatcac catctttaga   360
cctcaaaaca attatcaacc atcaaacttt tt                               392
  
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<210> 6152
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H12

<400> 6152

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 gccaatcttt ttgcatttca aaaaagaaaa aaacaaaaaa gttaaaaaaa aaaaaaaaaa 120
 aacacaagaa ccaaagggg aaaaaagca aaagaaaaaa aaaattacac aaccaaaaaa 180
 gaaaaaaaaa aaagaggggc cgcccaaagg gttccaagtt tacgtccgcg tgaaggcaag 240
 gtcaaaccct tccaaaagg ccccaaatt ccaatccagg ggccgccttt taaaaacgtc 300
 gggacgggaa aaccccgggg gtaccaatc taaacccct tgcaacaaac ccccctttcc 360
 caaccggggg tattacaaa aaggcccccac ccgtttcccc ttccaaaag ttg 413

<210> 6153
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-H5
 <400> 6153

ggtccagaga ttcccggtc gacgggtcgc cctaaagtgg catatgaaat ggacgaagga 60
 agaaatttag caacactttt cccgcaggat ctcttgcaag aagaaaataa tctccaaatt 120
 cgacttgtca attttatttc tcatgaaaat agcaagttaa ctcaaagaat ttatcacaca 180
 aatagtcaat ttgttagaac ttgcttagta gtgaattggg aacaagaaga aaaagaaaag 240
 gctgggtgctt cccttggtga ggtaagagca aatgatctta ttcgcgattt cctaagaatt 300
 gagttagtca agtccactat ttcgtataca cgaaaaaggt atgataggac aagtgcagga 360
 ccgattcccc ataataggtt agatcgcgcc aatatcaatt cttttt 406

<210> 6154
 <211> 186
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-A12
 <400> 6154

tcccgggccg acggatcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgcccaaag 120
 gttccaagct tactttcccg tgcattgcaac gtcaaaacc ttccaaagtg tcccctaaat 180

tcaatt

186

<210> 6155
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-B12
 <400> 6155

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 agcttgggga tgcccatgga accccaagat attcaaggat agccaaaagc ctaagcttgg 120
 ggatgccccg ggaaggcatc ccctctttcg tcttcgttca ttggtaactt tacttggagc 180
 tatattttta ttogccacat gatatgtgtt ttgcttggag cgctgtgtat tatattagtc 240
 tttgattttt agtttaccac aataatcttt gatgtacaca ctttttggga gaagcctact 300
 tgattagaat ttgctagaat actctatgtg cttcacttat atcttttgag cttgatagtt 360
 ttgctctagt gcttcactta tatttttgag agcacggtgg tgatttaatt t 411

<210> 6156
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-C10
 <400> 6156

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 taaaatccta cataaaactt gtagatcact gaatatgata tgtttgattc cttgcaatag 180
 ttttgcgata taaagatggg gatattagag tcatgctagt gggtagttgt ggattgtaga 240
 aatacttgtg tagaagtttg tgattcccgat agcatgcacg tatggtgaac cgttatgtaa 300
 cgaagtggga gcatgaggta tttattgatt gtcttcctta tgagtggcgg ccgggggacga 360
 gcatggtctt tttcctacca atctatcccc ctaggatcat gcgcgtaata ctttgttt 418

<210> 6157
 <211> 371

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C12

<400> 6157

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gtaaatatgc attgttgtat cgcgacctga atgaaataaa cgaaataatg ctcttggtca  120
atcggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca  180
aaaaagaaaa aaaaaaaaaa aaacataca ggcgactcca aaggactaat acatagttac  240
ccaaatata atacatcaaa cctcgtcaat agaagccacc taaatgcaa taactggccg  300
ttattaaaca acatcgtcac ggagaaaaac ctgctttcac caactgtagt agtattgaaa  360
aagatcccac t                                     371
  
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<210> 6158
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D12

<400> 6158

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gaggcgtggt gagtgtcagt gtttattgtt actggaatgt gagcgtggca gaagtagaaa  120
gccggatcgt gaatggtacg cagagcacia cgggggttccg tccagttttc gttggcgctc  180
ggagggatct ggagagacta ggggaggatc cctgggcccgg ggcttagtgc tttgatcagt  240
gaaagtacgc aacaagaaat catggtttga acaattatgt atcacaacia attaatattg  300
aggacaacia atgcaaaagt cttaactca caggactgag cgaccagccg ggaggctctt  360
caaggtgagg gattactgca agaccataac taatcccctt g                                     401
  
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<210> 6159
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E12

<400> 6159

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cattgaagca cttgagaagg atattcaggc agtgcgggaa ctaaaagaga agaatttggt 120
gctgctgaca taggcatcaa cagccgaagc ggtgggtgctc cattttgtca ggtttctagg 180
acaagtggct ggaatgtcat actgctgggt tgctttgtct tcgaaatggt tgggatagta 240
ccactttgtt gtcgtttag tagctgatatt tcctgctgta gctgtttgta ggctgggttac 300
ctgcatgtgt tcctcgagtt gtctgataac cggcgacat tgtggttget gctacttgct 360
gcgttgtgtc tttgtgtggt atcttactgg agttgagatg ttatctgttg cgttgtg 417

<210> 6160
<211> 318
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-E5
<400> 6160

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ggacaggagt acaacaactc caaggacaat ttccccaaga aatgcacatt agcgaaggtc 120
aggagaatgg cgaggttcat catcgacaat aagacgacca ttaggatcgt cgatgtgaca 180
acgatgatca tgacgacgat tgccaagatc acaatgcagc cgaccactat gataatgatg 240
atctctctgc cgtctaccat ggagattgac ttcactacga tgattatgac tattaagaat 300
aagaggaaaa ttacgact 318

<210> 6161
<211> 405
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-E6
<400> 6161

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caggggagac gtaggatggg agttcggccc cggcgaactg atagggagga tagtgtacgg 120
cgaactgtct atgtctcaga cattgatcaa catgtcactg aacagaaact tgctgaggtt 180
ttctcaaact gtggtcaagt ggtagattgc cgtatctgtg gtgatccaaa ctcaagtatg 240

cgttttgctt ttatcgagtt cgctgatgat gtcggtgcaa gagcagcttt aacgcttggt 300
 ggaaccattc ttgggttttta tcctgtcaga gttttgccat ctaagactgc tattttgcct 360
 gtgaacccca aattttcttc tcgaacggag gatgagaaag aaatg 405

<210> 6162
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F10
 <400> 6162

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 aacatcggcg accagctgga ggtgatcacc aacgggcggt acaagagcgt gatgcaccgc 120
 gtgctcaccg gccccgacgg caaccgcatg tccatcgcct ccttctacaa ccccggcgcc 180
 gacgccatca tattcccggc cccggcgctc gtgggcgccg ccgacgctgc tgagaggaaac 240
 gagggcgagg agggcaccgc cgtgtacccg aggttcgtgt tcgaggacta catgaacctg 300
 tacgtgcgct acaagttcga ggccaaggag ccacgggtca aggccatgaa ggcagacgcc 360
 gcgcccacgc ccaccgctg ataacgcgcg gc 392

<210> 6163
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F12
 <400> 6163

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 aagtttgtgc ttactaaggc ttatattgat gggttgcctt ttaccattac acatgatgat 180
 tttgatagat ataatatgca cgtgcttgct gctcctactt gcaattatta tgagagagga 240
 actatatctc cacctctcta tgtttccaat atgataaaat tgcaataaac tgtttatatt 300
 atgcattggc ctttactatg tgtgcatgaa ttgttctttt atgacatgcc gatgcatagg 360
 aagagagtta gacttcgttg ttgcatgata tatgttactt tgtgctcact actaaat 417

<210> 6164
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-G10

 <400> 6164

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 aatatggcac aggactttat tatcttttta atgtgacgaa gaactaatgt agcgtagttt 180
 agccaggatg tatgactgtt atccaaagag catcaatgaa gagctaaaag gtctattgta 240
 ttccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaacacat attggat 377

<210> 6165
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-G11

 <400> 6165

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 cgtaggggtg tgggtatatg ctatgcatca tatgcccaaa atgcccttag acatgggggg 180
 taccgaagca aacctcattg ttcaaatatg tccaggttgt tgcgaaccc ttatgttggg 240
 agaatatgag aactctaggc caaattagcc ttcgactatc tatacctaatt attataagac 300
 ggatcctttc atagtcttct atctatcgct cttttgtatc cgttgatttt atgttaacaa 360
 agatattaac ggccgacatt taaaact 387

<210> 6166
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G12

<400> 6166

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tatgcatggc cgtttaactc ttgtcttaaa aaaaaaaaaat gaaaaaaaaa aataaagggg 180
aaaaaaaaaa aagaaaaaga aaaaaaaaaa taaaagtaga aaagcggccg ctcaagagga 240
tacaagctta catacccatg catgcaacgt catacctctt caaaaatgta acctaaattc 300
aatt 304

<210> 6167

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G6

<400> 6167

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gtggatgagt cagatacaag gctcttacat gagggaaaaca aactcgatat cacaaaacga 120
caacacactc ctattggata tgagggtggca tgcaagaatc caagcatagc tcaacgttca 180
tggtgcctcg gagaacatcc tgaggctgga gggatatcga attcctcctg ggtctgataa 240
cagggtgaatg cagtaaacac cataaccatc agtactatga tctggaacaa tatcatgaat 300
aaactatttt ctggattatg aatgaattct gaaacatggg gctataagtg aattatgttc 360
catggatttg taactatggg gaatgtcaag ttaacgttcc atc 403

<210> 6168

<211> 334

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G7

<400> 6168

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aaatgagatc gatgcagatg attatggtaa atgggtcatc gtcgggaaat caacctgtat 120

atgacaatca ggcaacacgc ccctatttca tatgaggcag cacgtcagga tccaagtcta 180
 gttcaacgtg catggtacgt cagaaatcat ccagaggctg aagggatttc aagtcactcg 240
 atggtccttt taacacgtca ttacagtga caccaatata tttctgtatc ataatcagga 300
 agcataatcat gactcctgca caaactggat tatt 334

<210> 6169
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-H11
 <400> 6169

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 cgcgggggca aaaggcgctg gcgacgctgg tgaggctcgt gcggagcgat tccatctcca 180
 actccaacgc tcccaggctc aggcacctcc cgtctctcat gaggaccttc tcgctctacg 240
 accatatcaa cctcatcgac accgtccccg aagaccagct ccgcttccaa acttacgatg 300
 aactggatt catgattaac aatgtaaagt atgaaggag cttgctgata gtagaaaaca 360
 agataatgac ctggacaccc aaaacatttg cggatataac tgctgaaa 408

<210> 6170
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-H9
 <400> 6170

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 gtggaagtgt atccacattg aaccggtatt gagcggaag atctctgatc ctgatcgtct 180
 atttctgaca cagaagattc caggtgattt gcagtgctta aatataaatg actgcataaa 240
 tatcaccgac aatggtttga atgctgttct ccaaagcaat ccgacgttaa caaagttgag 300
 tattgcacgc tgcccgcggt taacttttga tggccttatt gccaatctaa agtcatttaa 360

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405

<210> 6171

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B10

<400> 6171

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cggggccccc acgaggagct gctggtggca aaccgggtgg aggtgtccgg gaagggtagg 180
ccgctggtgt tctatgacat caccctcgcg ctcaagaacc tccatagacg agtcttcttg 240
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ggcgaggacg accacgagct ctctgtctcg gtgcggagca agattgtcga tggcgtcacc 360
aacatgctca tgggctggga ctgactgacc gactgggtcac accatgcac ttccttgaca 420
tattcagtct tgttgcaaa 439

<210> 6172

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B12

<400> 6172

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ctaattcctt acggtttaag agcagtttcg attttaccga aaagcggaca ctctgttctg 120
cgcgagacca aaatcgtcgt atgtactgca tcggacagaa gaacgcattg cttcagacaa 180
acgcattgct tcagacaaaa taccgactg catcagatgg gcaagtgcac tgcattggtt 240
ctttttgttt aaacgtattt tttgtcggac gaggaagaa gaacgcactg cttcagacga 300
aataccgcac ttcattcaca gagacaagtg cactgcatga ttttttttgt gagatgtaaa 360
ttttcccata cgagtttttg tttttgttgt ctttttttca actttctttt atgaacgaga 420
agtggacgca aagacaaggg gaaat 445

<210> 6173
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-B8

 <400> 6173

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 agttttggaa aaggccttct gcactgaaac tcgtccattt aaccaggggtt ccaggcttac 120
 agctttcgag ttagttcatg acaaaatacc tgcgacgctg atagcagact ctgctgcagc 180
 tgcacttatg aataatggac aagttcaagc tgtaattgtg ggtgctgata gtatagctgc 240
 aaatggtgac actgccaaaca agattggcac atacaacctc tcaatttctg caaagcatca 300
 cggcgtgcag ttttacgtgg ccgcaccagt aacttcgatt gatctctccc ttccgtctgg 360
 gaagcaaata gtcatagaag aaagatcttc aaaggaattg ttgaactctg aaggtggtct 420
 angaaagcag gttgccgcgt caggtatata 450

<210> 6174
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-C10

 <400> 6174

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 ttcacactta aagttggggc gttccctacc gaaaccatca tgcttggtgt gagaagctct 120
 ggtttgtgat aagcatcttc ccaaacctgc cccaaatggg acaaaaaatt taccacggca 180
 tgatgatgcg gctccattat agcatgccaa gttacatgaa tttcagacga gtgtcggatt 240
 tactagattt tataaactag gcatctcaat gtttgtggca ggggtgttga cattaattcc 300
 catttcttgc atgggaccta agcatgcacc caaggacaaa agatttgatt tttcaaccaa 360
 tttatatgca ccggagcatg tgcattgagt tccaatttgc attatgcaca taaatgcatt 420
 gaaaactcac ttaatgcata aaa 443

<210> 6175
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C11

<400> 6175

gtacaggtca agaattcccg ggccgacggg gaggttaaga agctgattgg caggatagtg 60
 aagtggctga agcccgggtgg gcatattttc atcaggaat cgtgcttcca ccagtctggg 120
 gattccaaga ggaaagtga cccgacgcac taccgggagc cgagggttcta caccaaggtg 180
 ttttaaggaat gccactccta tgaccaagag gggaattcct ttgagctttc tctggtaact 240
 tccaagtgca ttggagctta tgtgaaaagc aagaagaacc agaaccagat atgttggctg 300
 tgggagaagg tcaagtgcac agaagacaaa ggctttcaga gattcctgga caatgtgcag 360
 tacaaatcca ctggaatctt gcgttatgag cgcgtgtttg gggaggggta tgttagcacc 420
 ggtggattcg 430

<210> 6176
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C12

<400> 6176

ggtacaggtc cagaattccc gggccgactc gtcgtgaaag ccgacgctgc gaatgcgctt 60
 gtgagagccc ttgctgccc gtgagagctc gttcgagga tccgcggcgc accgggacat 120
 ctctgttcca gctgtggctt cgccgcagga cctctctagt gcttccgcgg ccttggctt 180
 tgctgcctgg ttatatgtcc accctaaact cctcctaccg gtcattggtgg aatgacttga 240
 caggaaagac cggttttgtg ggtgatgagg agaggaactg tgaagtaatt ttcgagtggg 300
 tagtttttat agcccagtgc taagtgtgaa cgcatattag tttgataggt gtgaacagat 360
 ttgcaattac ttattacgtt gtaatctgca atgtgacgag aaacaaggtc aaaattattg 420
 at 422

<210> 6177

<211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-D11

 <400> 6177

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 atcgggatgg ccgccagccg tgaagcggca gcgacaatgt tgtccattgg gttagaatag 120
 tgacccggtg gtgtggggac gtgcggtgcc acaatgttgt tctgacgagg cggatccacc 180
 aaacgtggtt gaactggtgc ccctgctcca ggtgcctccg cccggtttac caccggcgga 240
 ttactggtcc ctgctcctgg ggtgttaaag agatttctag cgtcataaac cggcggcagg 300
 tgagatcggg gcctcctctt caggacttcg ttcgacgcac tctgatccag cataatccgg 360
 taagcttggt catccaaagc ggcccgtcc gcgactat 398

<210> 6178
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-D12

 <400> 6178

 attcccgggc cgacggggaa gagtatccat cagcacgatg gcgtggtgac gatcttgatg 60
 ttcaactgtc gtagggcttc gcctaagcac cactacaata ttatcgagga ttatggtgga 120
 agggggcacc gcacacgact aagaaaacga tcatgtggat caacttgtgt gtctaggggt 180
 gccccctgcc tccgtatata aaggagccaa gggggggtgc ggccggccct ggtaggaggc 240
 gcgcaggagg agtcctactc ctaccgggag taggactcct actcctaccg ggagtaggac 300
 tcccctccct ttccttgtcc aagtaggaga gggggaagga agggagagag gaggggaagg 360
 aaaggggggc gccccccacc cccggctggc 390

<210> 6179
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-D2

<400> 6179
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 ggaccattgc ctggagctct tcacgggtca gaagtgatcc gtgtgcacaa gcttgccctca 120
 tctacggctg ggtgcagtgg acatccacga cgtagcatta ctcaaataat aaatgccctc 180
 aatgtgcggg gttactcgag ttgtttgaac ttgtttttgc ttgagcacia cgtattttatt 240
 gatgtccatc ttgtattgta atccctatat actagtgggt gtgcgcgcgc gcttgtttta 300
 attgtgatcc tactcgtaat gaattatggt actacaacat agnnnanatt anagaaaaaa 360
 aagcggccgc tctagag 377

<210> 6180
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-D7

<400> 6180
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 caggggtgctg ctgctggagt ggttcgccga gaactaccag cagtacggct gcaagctgga 120
 gttcgtcacc aacagggtccc aggaaggggc gcagttctgc cggggcttcg gcggcatcgg 180
 cgggatcctc cgctaccggc cggacgtcgc cgcctatgac gacgacgacg acgacatgct 240
 ggatgacgac gtctatgaag acctcgaata gcaatcaact gaagcttcag tgcacacggg 300
 ccgggaggag cctgtgctgg ccacgaccgc gccgggacga gaccctgaaa catccaaacg 360
 atcgggtgcan gggaaacaag gaggtggaga gaagaggatc taagcaattg cgcaatccag 420
 atgttgagcc aggcattgatg atagcgtcga tgct 454

<210> 6181
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-D9
 <400> 6181

gtacagggtca ggaattcccc ggccgacggg agtagtactg cctgcttgat gtatgggtgtg 60
taccgctcat cgtaaggcat ggcaggacca gagaccccg c tgataccgag atcttcagag 120
gttcaagctt ctgcaaaaaa caagtaatga caaatcttag ggcattgtaca tttcaactaa 180
aggcaaattt gcaaaatatt tagattactc attattacct tacccttcac gcgcattcatg 240
tatgcccggg gttgcacgtc gtaaacaatca tccaaaagcc aaaccatcct tacaatttca 300
tacaataaac atataaaagt tcatcttcat ctcaaatac ggtatacact aaacatataa 360
catgtgttca actacaagaa tctcaacatc tccttctcac ataatagaata tgtcatatg 419

<210> 6182
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-E10
<400> 6182

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ctaacagccg atcctgaaag ggtgcttaag gggatcagaa gaccaccacc accgccggcc 120
acctccaggc ccgtgccggc ggcattcttc gtgtctgcta catcgctgc tgatgccctt 180
cctcccgacg atcttctcac tgctggagat gctaagggtg agccaggggc taccctgtta 240
atggatcaag ataatacgc aatgaacatt aaaaatgatg ccattttgtt tgacatagac 300
gaaccttatg caaagaactt tcccacatgg agagtggaga tcattgtctc atgtaaggaa 360
tctcccaatg tttttctgcc actaagggtg aaggatgtta atcatgatga taaggcagac 420
attgggagag atctcaaga 439

<210> 6183
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-E12
<400> 6183

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gttttgttgc atccaactcc aaggatgacc ctgccaaagg ggcagccaac ttcacctccc 120

aggtcatcat catgaaccac cctgggcaga ttggcaacgg ctacgccccca gtgctggact 180
 gccacacctc gcacattgct gtcaagtttg ctgagctggg gaccaagatt gacaggcgat 240
 ctggtaagga gatagaggcc gcgcccaggt tcctcaagaa tggatgatgct ggcatagtga 300
 agatgattcc caccaagccc atggttgtgg agacctttgc cacttatcct cctcttggtc 360
 gttttgctgt ccgtgacatg aggagactg tggctgttgg tgtcatcaag ggcgtcgaga 420
 agaaggaccc aacccggggcc 440

<210> 6184
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-E2
 <400> 6184

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 tatttatggc atttccatag ccattccgag atatattgcc atgcaacttt ccaccgtttt 120
 gttcattatc attatgacac gcattacttt tgtcatattc ccattgcatg atcatgtact 180
 tgacatcgta tttgtggcaa agccaccatg cattatTTTT catacatgtc actcttgatt 240
 cgttgcacca tcccgggtaca ccgccggagg cattcatata gagtcatatc ttgttctagt 300
 ttcgagttgt aattcataag ttgtaatcaa tagaagtgtg atgatcatca ttattagagc 360
 attgcctaaa gaaaaaata gaaataacaa gaatggccaa aagaaaaata ggcccaaaaa 420
 aaga 424

<210> 6185
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-F5
 <400> 6185

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 gatgaagctt ttgataaaaa gagaaaccgt gacatgaaag gaattaagga gacacaaagg 120
 ttcaagcttg gggatgcccc aggaccccc aaataatatt tcaagaagtt tcaatcatct 180

aagcttgggg atgccccgtt aggcattccca cttttcttct tcaacaacta tcggttagta 240
tcggttgagc ctaagttttt gtttcttcac atgagttgtg ctatccttgc attgttattt 300
tattttgctt tgcttgatgt ttgaataaga taccaagatc tgaaattctt taatgagata 360
gagtctttgc atagttgcat aattatttag ctaccctttg atcttcactt atatctttcg 420
gagtagtttg taatttgctc tagtacttca c 451

<210> 6186
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-F7
<400> 6186

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atccagcagg tgggtgttcgc cagctacggg aaccgcgtgg ggatctgcgg caactacacg 120
tttggaact gccacacgcc caaggccaag gagattgtgg agaaggcgtg cgtggggaag 180
aggagctgcg tgctggccgt gtcgcacgag gtgtacggcg gggacctcaa ctgccccggc 240
accacggcca cgctggccgt gcaggcaaag tgctccaaga ggcagaggac cgccgagcaa 300
taagtaacct aagctcacat atgtactgct atgtagatga tctcatcacc ttgacctttt 360
tgcttttttc atgcttggtg tttgggatac atgttgact caggttggtg attcctgtga 420
attgttctag gag 433

<210> 6187
<211> 364
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-F9
<400> 6187

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ttcatccctc attccttcac tcagcagctc ctcccagaag tcgtcagtca gttcggcctc 120
accgcagcct tgatcccgct gacttctgtt tcagtctttg aaggctcctg atattgttaa 180
gcttgtttac ttatgggcac ttgtgtattg gtttattgct gggcattatg ccttgatatt 240

aaagatttcc gccagttaca aaaaaaaaaa aagagacaat acgaatccga ctaaaaagga 300
aaagaaccat aaagaaaaaa aacaaaaaaa aaaaaaaagc ggccgctcta aaggatccaa 360
gctt 364

<210> 6188
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-G11
<400> 6188

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agatcaagga caagatcagc ggcgacggcc acggcgacgg caagaaggac ggcgaccacc 120
acaacaccat catcgcatcc cattagcatt ctaccatttt cctcggagag aagtagccag 180
aaacagcagc gccatggccg gcatcatgca caagatcgag gagaagctcc acatgggtgg 240
cggcagcgac gagcacaaga aggacgagga gcacaagaag gcgaggagc acaagaagaa 300
ggacggggag cacaagaagg acggcgagca caaggagggc atgatggaga agatcaagga 360
caagatcagc ggcgacggcc acggcgacgg caagaaggac gggcgacaca 410

<210> 6189
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-G3
<400> 6189

accggtcaag cattcccggg tcgacggggg cggataccaa aaccatcgca ctatataaga 60
tgcaataata aaagtaagaa aataatacaa gtatctatgt aaacatacaa gtaagaatat 120
ttttcctttc agaaagaaga taagaacaag aggctcacca cgggtggtgcc ggcgatgagc 180
tcggcgcggg tgatcgacgg cagtgaagac ggggacgggg cgtgacaaac cgctaaacct 240
agacaaatat tgaggaaaat ggagcttggg ggtcgagctt ggagaggaga aaggttaagt 300
agtgtggctc gggcattcca tcgaacacct tgtgtgcata ggaggtgagc tagagcacca 360
ccaagccctc tccccctggg ccagaaaaaa cagagtagtg tgctctgctc ttacgcgagg 420

gggtatatat aggcacctca tt 442

<210> 6190
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-G5

<400> 6190

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tgaatctggg tggcagggcg gtgtggggta cccacacgcg gcgcttctga ggaccagcac 120
cggatgagga acccgtgtca cgtccatgct tgcgtgttgc gtcatagtca gtctgaccag 180
tttcagcact gatggctttg ttgacaagtt tcgaaaaaga tgtgcactca tgcagacgga 240
ggtcgcggcg aagctcagga ctaaggccct tacggaacct tgcttgcttc ttggcgtcag 300
tagaaacttc ctcagttgca tatcgggcga gattaccaa ctccttgcta taggcatcca 360
cagaaagtcg gccttgggtg aaactgcaa attcttcacg tttacgggcc atgagaccct 420
ccggaatgtg atgttcacgg aaagcctcgc tg 452

<210> 6191
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-G9

<400> 6191

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taaccgttcg tactaatgaa tacagcaaga attacaagac atggaaagat aagacaacga 120
aaacattgtt acaaagcaaa catatagttt caaatcaatt aactattgaa gctaattgtgc 180
ccaaaagaat ctaggagtat aactacctac ttcaaaggca tatttataca gttcttctac 240
attttatact atcccgtagc aatgcattggg ttgacgacta gtgagagtaa ctcttcaact 300
catacattgt ttaattcccc ttcatgctta tcgaaggatg aatggtagta tgattgttat 360
gatcctgttg attcttttga aatatcgctt tttgatgatg cttgttatgc ttgtggccaa 420
gatgccaata tgaa 434

<210> 6192
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-H10

 <400> 6192

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ttttgcagtt gagagatgga tccttcctgt gtatgtatcg ctttgctaaa gcctgggtgg   120
tgctcacaaa cacttggcac ttgtgtgatt cttttgtcca tggatgtact gtgtacaaca   180
agttgatggg aatgtgattt ggtatatgct ttcagttgaa aaaaaaaaaa aaaaaaaaaa   240
aaaaaaaaaa aaaaaaaaaa acaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa   360
aaaagggggc cccccaaaag gttaacctt ttttttc                                397
  
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<210> 6193
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-H11

 <400> 6193

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ttgctatgct atgtcaccac tccggagtgc cgagctcttc gatctgccac ctcgggaccg   180
gcttggggggc tgggacctca tcccgatgta agctcggact gcgtcatcaa tgccaaacac   240
aagaaccagc taagtcgctc ttatgctcaa agttttaaaa atttaaattt tgttcgggttc   300
gaccaagcat tatacttttt tggcaaagag ttgtttgtga aaaacttctt tgtcaaaact   360
ttgtttgtga cacacaaatt caaatacccc gtttacttgg gggcttcctt tatgaagcct   420
tccatcttgc atatgatta                                                    439
  
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<210> 6194
 <211> 452
 <212> DNA

<213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-H5

<400> 6194

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 agactgacac tgcgattgac tttggcaacc tcttgccccg agcgccctcg aagcaccgga 120
 gcaggagcgc tcatccccgt gaaggaggag ggcacgacga cgaagagagg atgatggata 180
 agcttctgag aactacagc aagaagggga tggagaggga ggaggagcac aagacgaggt 240
 cgaagtccag gacccctcg cctcgagcag atcgacctgc tgatggcaac aacagagatg 300
 gagcgcccag tcatccagag agaaccgcat ctctgcctac agaatcaggt tcaccgggtg 360
 ggaggacgaa ggctcctgcc cctgttcggt ccacctcgct gcagcaggac acgttcaggg 420
 ggaacgtgcn accgaagatg ccggattttg ac 452

<210> 6195
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-A1

<400> 6195

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 cttggatgaa catagcaaaa atgtccttag aagattatac catgactatt atttcgttcg 180
 ccaagaaaat ctttggcgac aaaatgcact gaagactcta cctgttctat tgaactgttc 240
 ggatatgttg gcatgcgggg aagatcttgg ccttatccct gcttgtgttc accctgttat 300
 gctanaactc gggttgattg gattgcgtat ccagagaatg cctagtgaac caggcttgga 360
 atttgatatt ccgtccaagt acagctatat gacggtttgt gtcctctcat gtcatgattg 420
 ctcca 425

<210> 6196
 <211> 432
 <212> DNA

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<223> Clone ID: LIB104-052-Q1-E1-C10

<400> 6198

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gaaggaggca accaagaatt tgcccgactt caagaaggat gatcagaagg ccattgatgc 180
cgagttgatg aaggctatcg atgctgtccc agaccttaa aattatcttg gtgcccgggt 240
ctccctcagg gatggtgaca agccgcatga gatgacctt taagttacct ggtacaagtt 300
tcaagatctg tggaagtctt ttttgtctag tgtgtgtgct ggttctgtac ttctgatttc 360
ttttgcccgg ttggtgaatc tttgatttcc actgaagtct gcctgtcaaa tattttgaga 420
ag 422

<210> 6199

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C12

<400> 6199

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gataggggttc taagacctgg cggatactgg gtgctgtcag gtcctccaat taactggaag 120
gcgaactaca agggttggca acgtacaaag gaggatcttg aagcagagca gaacaagata 180
gaggaaatgg ctgagcttct atgttgggag aaagtctcgg agaagggtga gacggcaata 240
tggaggaaaa gagtaaatac tgagtctgt ccatctaggc tagaagaatc cactgtgcag 300
atgtgtgaat caacaaatgc agatgatgtc tggtaacaaga agatgaaggc atgtgttaca 360
cctcttcctg atgtacaaaa tccaagtga gttgccgggg gagcaatc 408

<210> 6200

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C6

<400> 6200

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 ttttttatta aaaagccaaa ttactccggc ttgtgatatt gtttatgcag agcaattact 120
 tactgcaaga gcggtggcga ctgacctgcg tccgtactga ctctaataac aacagtcgtc 180
 tttacctcc gcctccggg tttggtgtat atcaacacat tggagctgca ctgtctgcat 240
 gagctgttta ttgagtgcga gaaagtcact cctcgggtag cccgggtttt tcttccaaca 300
 atttgaaggc taattactat atattatcaa ccacctctg cactagatgg ctcaatgagc 360
 aggtgcacaa gtgcgcgcca ctatagtttg gttaacttca aaata 405

<210> 6201

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C8

<400> 6201

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 actacacaat cttcagcgaa accctggaga acaccctgcg cgagatgcta ggggaggaag 180
 taccctctc cgttgtcatc aagctcgga acgacgggtc aggtatcggg gccgtctcc 240
 tcgtgcagc tcattctcag tacctcgagg ccgaggtctg aggagccata gcctggatat 300
 agatatatgt tgggttggtc ctcaggagca gcgatgtctg agtcacgcca gggctctgtc 360
 tgtgtgtgta gctggagcat ccatggagag ctgtgtctct tagtaattgg tagctctg 418

<210> 6202

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D5

<400> 6202

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 cttttttcag atgattaata gataaattac tcacgtccag caatttatct tagaattttt 120
 ggggttccag atcttgcgct agctacagat tactacagac tgttctgttt ttgacagatt 180

ctgtttctcg tgtgttgttt gcttattttg atgaatctat ggctagttaa atagtttata 240
atccatagag aagttggaat acagtaggtt taacaccaat ataaataaag aatgagttca 300
ttacagtacc ttgaagtggc cttttgggtt ctttcgctaa cggagctcac gagttttcta 360
ttttgagttt tgtgttgtga agttttcaag ttttgggtga attcttttga tggatcatgg 420
aacaaggagt ggcaagagcc taagcttggg gatgcc 456

<210> 6203
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D6

<400> 6203

attcccgggt cgacgggcaa tggagatgt aggtgtgata tgtcaagtag tggacagata 60
agccaaccac tggatgtggc tttcagggtt ttttgcagtg ggattttagt ggtactatgc 120
tgcgctgtgt ttgggatttg aaataaaacg atgggagatg tgccacgctc ttaaattgcca 180
atcttctgct ccaaacttgc taaattactt gttgcatttt gcagcttgct tacctttaca 240
gtgactacct tcttttggct gtgcccattt gggaaaacag tttgtccaat tcacatctac 300
ttcgtgtcct tttagacatt tcaaataagc aacaacatac ggatgtatgt atacatattt 360
tatagtgtag atccactcat tttgtccctt aagttgtcac ttgttg 406

<210> 6204
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D8

<400> 6204

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caggaaagaa aatcaaatta cttatgaat ctatcgctgc agctccctat gaaccaagtg 120
ccaaagatgg cactatttag atctatcttc gcttttatgc ctagctaggg gcgttaaacg 180
atagcgctag ttgggaggca acccaatttt cttatgttc tttgtttttg ttctgtttg 240
gtaataaatt ttgtttctac tttctgttta gatgtgtttt cttcttttaa ttagtgtttg 300

tgccaagtag aacctatagg ataacctatg atatgagttg atttgattct gcggaaaaac 360
 agaaactttg cactcacgaa aaaaattcaa taaatcacag gaacgtgctt ttgcattgat 420
 tccttttgcg gctgatcaat aaaca 445

<210> 6205
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-D9
 <400> 6205

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 caggggggagc ccttgccact tatgaagaca ataccctatc ctttacaatt tcacatactt 180
 cattcccggt gaaaacttca accagtttgt catcaatcac caaaaagggg gagattgtaa 240
 gtgcatctag tgccaccct agttggttt ggagtattga cgacaaagtt ggttgaggga 300
 ctaatgcgtt tgtgagaatt gcaggataac tcaggtagtg tccctcattg attcggttta 360
 cctaccggag atgacccta aaaatgtatg aagacattga cgac 404

<210> 6206
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-E7
 <400> 6206

attcccgggt cgacgggcta tagaataaag agtggcaaga gcctaagctt ggggatgccc 60
 aaggcacccc aagatattca agaataagcca aaagcctaag cttggggatg ccccgaaaag 120
 gcateccctc tttcatcttc gttcattggt aactttactt ggagctatat ttttattcac 180
 cacatgatat gtgttttgcg tggatcgctg tgtattatat tgggtcttgc ttgttagttt 240
 accacaatca tccttgcgtg aacacacctt ttgggagaag cctatttgcg taggatttga 300
 tagaatactc tgtgtgcttc acttatacct tttgagcttg atagtttttg ctctagtgcg 360
 tcacttatat cttttagagc atgggtggtgg attaattttg aagaaattgc tagtctctca 420

tgcttcactt atattattt

439

<210> 6207

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-E8

<400> 6207

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caatggcagg ccacgcacaa ccggtcgtag ctgagcgagg aggagaggct gcgtcgcttc 120

cgggtgtacc gcgacaacgt ggagtacatc gacgccacca accggcgagg cgacctcacc 180

tacgagctcg gcgagaatga gttcgccgac ctacccagg aggagttcct agccaggtag 240

gcgtcgctct acgatggggg cgggtgatgat actggcatca cgttgcctgt gggcggtggc 300

gacgccgagc tgtgggtcgt cgggcgaggac aatgatagct ccttgagggc tccgcctccc 360

agctgggact ggagatccaa gggcgccgct acaccggtca agtcccaagg cgcaggatgc 420

gctagctgct gggcggtcgt ga 442

<210> 6208

<211> 446

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-052-Q1-E1-F5

<400> 6208

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tectgaaaca ttgagaatct cggtttttaa atcccagtaa atcaaaaact caacacaaaa 120

acatgaaacc tggcatggtt tcatgacatg gcacatatat gccgtggtaa aaaaaatcgt 180

ccagtttgag aagagggcga cacattagta gccacaaaag tcctttttga aacaaaaatc 240

tgacatgtta atatcgcaaa tggttgtatt atattaacca tgtcgaaatt taaccatact 300

tgggtggtgt cgtgcagctg tttgattaga cgggacgagc ccgagaagtc caccgtgcag 360

gtcgcagggg acgcgtgcga agagtctgcc gtgcaggctc gacangacgc gtgcacacct 420

tccgcctcgc aggctcgagc ggacac 446

<210> 6209
 <211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-F8

 <400> 6209

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 cagaaggctg atttaagtga actcatgctc ttgctgcta cccctgaaga agagttgcgg 120
 cggcgagggtg gtaatgggta tcatgagtac tctactgatg aagaggatga tgctgttctg 180
 gctcatgtgc gtgatgaaga cgatgatgat gactttctga gtgattcttc tgtgagcgat 240
 gaggagaatg ctcaaaccga gggagcggat gttcacaagg ttgctgctat tgtggccagc 300
 tgaaggcatt tgggtccatc ctatctgtct tcatctaaact agtagtatat gtttacttac 360
 tggcagatgt ctctttgctg gatccgtctg tgttaaagt acccctgttg tgcntgttt 420
 cgaacaccga ctatataatt 440

<210> 6210
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-G11

 <400> 6210

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 atcgaggcct cattccgtat tgaccgcctc gacttcgccg ctgcgaagga ggcggatata 120
 ggctacaact gcagcaccag cgggtggcacg actggacggg gcaagcttgg tcccttcggc 180
 ctccctgtgc tcgctgatgc caggcgccac ggtgggtgata tggagcggac cggcgtctac 240
 ttctacgtcg cgagaggcct cgacggcggc ctgcgcacac acttctgtca tgacgagaca 300
 cgctcatctc atgccaacga tattgtcaag agggtcgtag gcaatattgt ccccggtctc 360
 aatggcgagg agttttcgct gaggggtgct 389

<210> 6211

<211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-G4

 <400> 6211

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 agctgatcaa tcccttctgt acgtgtgacg cctctcttct gaaaaaagag ccttccgtag 120
 gttggaatg aaacagtgat gagggatcca ctggatcaag cgcattgagc cattgactca 180
 ttgtggagtc atgagtctcc acgaggagtc caccctttct gtcccttttc caatattttc 240
 cgtatatctt ccgttcaaca tcaatcttac gttgctgaac attgctcttg tatgtaacaa 300
 accaaaagta aataataaca atatgacca agaattccag aaagcgccac ttacgcacga 360
 gacaatgcca gctgtactag ttgtgtgaca cacatgttac atttggggat ggggattggg 420
 attgagcatc gcaagatcga acc 443

<210> 6212
 <211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-G9

 <400> 6212

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 atccttcgat tttgtgatgg caggtgtgca tgcctctggc tttgtcgcgt attgtgccat 120
 atttcgatag tgtatctagt gtccgtgtgt cagtaaacca acgctcgtct cgtctttgtt 180
 gagtctagca tctgtgttgc ttctgttcat aatcgtaagc gaggtccag tgtcgtgtgc 240
 aactgcaa atgtttgtcc tattttctac tgctgctgct attggtccag atgaactttg 300
 tctc 304

<210> 6213
 <211> 346
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H7

<400> 6213

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aaactacact acgcgtaaac agttacaaga acctacatac atgttcgttc cccacgctga 120
tggtgctctt gtgtattgct gctgctgccc atcttttttc tcatcccaca gaggcacaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacccaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgccctaaag gttccaagct tacttacgct 300
tgaatgcaac gtcatagctc ttcaaaagtg tcacccaaat tcaatt 346

<210> 6214

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H9

<400> 6214

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aatcgggtcc aatgatattg taaaactgaa tttagagtct gcaattgtta cttggggggtt 120
tggtagacgg tcgttgtgtt tggggacgat gcagctgcag ccggttctct tggtgtggta 180
gatttgtggc atggcagggtg ctgctaagct ggagcctgct tgaactgttt tcctgtcact 240
ttgttggggt aataatgacc atcctgtaaa aaaaaaaga aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggca aaaaaaaca aaaaaaaaaa 360
caaaaaaaag cgcccgccct aaaggttcca acctactta cccgtgcatg cgagggtcaaa 420
acccttccc aaggggcccc ccaaaa 446

<210> 6215

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A8

<400> 6215

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aaggtagttg aggggtgacgg ggatcggatc acaatcaagg gggttgatgc tcgccaccct 120

atgattgtta tgctgctga cacgctgttt ctgaagatca ggcgcatca gcaaccaagg 180
 aggtggctta aaaagctctg gctgaaggg cttcttgac tggtagacgg gcgagggcat 240
 ggacgagatg gagttcaccg agggcgagag caacatgaac gacctggtgg ctgagtacca 300
 gcagtaccag gatgagcagg tcgaggagga agaggactat gaggatgagc aggaggatga 360
 ggaggccgcc taagcgggct tccccctttc tttccaggga tatgccttat atcgctcgtt 420
 atgt 424

<210> 6216

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-B8

<400> 6216

ggtataggtc aggaattccc gggccgacgg gcagagcaaa atcgaatgaa ccagacgcca 60
 ttcctaaacg aacgacggcg aggacgagca gaatcgaatc gaatgaacca gacgcgattt 120
 ctgaacgaac gacagcgagg acgagcagaa tcgaaagaac cagacgcgat ttctgaacga 180
 acgatggcga ggacgagcag aaccaataa accaagaacc ccacggacga gcgaaaccaa 240
 atctgattct tetaatccga cggacgaatc gagcggggat gagcgagata gaaccaggcg 300
 caggaggagg cgaggcagga accgaggacg agccgaggcg agagggcatg gcccgggcga 360
 atacaggagg agtggcccg agccccggat gaagagaggg gga 403

<210> 6217

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-C12

<400> 6217

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 atgtggatat tcttctagta ttacaaagcc ccccatgtag atagcttcgt cggcttgctg 120
 aacactcgaa caccaccta attcctacta ttagaggaaa aatgggtactg cagatactga 180
 ttaatgaacc gatctcttgg ttggaaaggg aaataaagat gttggcctga ccggtctctt 240

ggtcgaaaaa ggacagaaag tggggggtgt tgggtcaaca atccaaccaa gaatgagcac 300
 gtctagattt cttatgggta cataggaaat ttcgctgacg agaacaaaaa atgcataaat 360
 ccaaacatgc tttgcatgtc tgccgcactc ggcaacacct ctgcctcacc attt 414

<210> 6218
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-053-Q1-E1-C6
 <400> 6218

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 caaatattga ggaaaatgga gcttgggggt cgagcttga gaggagaaag cttacctagt 120
 gtggctcggg catttcatcg aacacctcat gtgtatagga ggtgagctag agcaccacaa 180
 agccctcccc tcgtcgteca gaaaaaatag agcaatgtgg agtcctctgc tggccggcga 240
 gcgggtatat ataggcatct cattgggtccc ggttcgtggc tggaaccggg actaaaggac 300
 accctttggg cccggttcaa gccaccagcc gggaccaatg gtggtggggc aggagcgagg 360
 cacattggtc ccggttcgag cctcgaaccg ggaacaaagg gtacagatga accggg 416

<210> 6219
 <211> 185
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-053-Q1-E1-D1
 <400> 6219

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 tgtaatggta agccacatac aagaagtggc tgaaggaaaa aaccggccgc atctacgagg 120
 atccaaactt acttacacgg taatgtcacg tcataccact accatagtgt aaccaaaaat 180
 caatt 185

<210> 6220
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-D6

<400> 6220

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ggccagacag cgctggagtt cggaaaggca tcaaatcaga agggagccat gctggattgg 120
gtgaagaaga tgcaccatga gaagaaactt gatgtactgg ttgacaaggg tctgcggagc 180
agctacgacc ggatcgagct cgaggacatg gtgcagggtgg cgctcctttg cacacagtac 240
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gcggaacggt ggcaagcgtc gcaacgagcc gactcacaca agttcacctg gctgagttc 360
accttcagcc gctgctactc cgacctgacc gacgactcgt cattgctggg gcatgccgtc 420
tagctctccg gg 432

<210> 6221

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-D8

<400> 6221

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atattttaaa tcaacaaagt gccatatagc gcaacaaat tcgttttcat actacaaata 120
cgacatgagt acatttactc aaagattgtg tccttggtag attcgtcagc catgagacga 180
gcgcttttca taatgccatc ataatatctc tcggggtagc ggtgcacctt gccctctggg 240
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aaggctcggc gggcaccctc aatacaaagc gatcgcttga taacttcaag ccacgaatag 360
gcatttacca tccgctttat aaggccggag tagctatcgg gcaagggctc accaggccac 420
atctggacta tga 433

<210> 6222

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-E5

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taaaagattt tagcttccaa gatgctgatg ttctcaaacc tgatatactc gctcctggca 180
atctcatatg gtccgcatgg gcacctaata gaacagatga agcaaactac gctgggggaag 240
gatttgcaat gatgtctgga actagcatgg ctgcaccaca tattgctggc attgcagcac 300
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ctgccaatac gatcgacaaa gggagccatc ctc 393

<210> 6223
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-E6

<400> 6223
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acttggatga acatagcaaa aatgtcctta gaagattaca ccatgactat tatttcgttc 180
gccaagaaaa tctttggcga caaatgcac tgaagactct acctgttcta ttgaactgtt 240
cggatatgtt ggcattgcggg gaagatcttg gccttatccc tgcttgtgtt caccctgtta 300
tgctagaact cgggttgatt ggattgcgta tccagagaat gcctagtga ccaggcttgg 360
aatttgatat tccgtccaag tacagctata tgacggtttg tgctccctca tgatcatgatt 420
gctccaca 428

<210> 6224
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-E7

<400> 6224
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gggctccaag tcgcaggcca agaccaaggc cagggaaagg ctcacgcca aggaggctgc 120
 gcagaggatg aactaagcct agccctataa gtattgtcag agcatatgcc atgtagtttc 180
 cctttcagtc tgtcctgatt ttgacgagga actcgaaccc ttttagcagc actgtggaat 240
 cgtattgtgg ttttctgatt cgctgttccg ttctccagac ttctgcaaag atcagatgag 300
 gtttaccat gtttgattc tatatagttt tatgtccttt gtcgagtctg aagttagttg 360
 tgtttgacat cttccaaact tggctggctt ttggttaaca tgcaatgacg aacagctc 418

<210> 6225
 <211> 419
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-053-Q1-E1-E8
 <400> 6225

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 gttgatagcc agccagttgc tgacgatact ttccaaggct agactggact tttgccattc 180
 ttgtacacca tgactttttg tactaaagtt tttcatctcg gttcacagcg aacattctta 240
 taatcttatt cagttttcgc attgaccag agttccgtca cagcttttgt tgctcatctg 300
 taaacctgag tgaaacaaaa agaagaattg gatcatcaaa aaaaaaaaaa aataaaaaaa 360
 aaaaaaaact agaaaaaaaa taaccggctc aaagaaaacc tcaaaaagag tttgatgtc 419

<210> 6226
 <211> 442
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-053-Q1-E1-F5
 <400> 6226

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 aaacttgcaa gagaatgga caccatgacg atgtacactg aattgaagat cccagaaag 120
 tggaaatccg cccgcttcca actgatgata aaattcttgc aattgagtat caaattggtg 180

<210> 6229
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-G5

<400> 6229

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 gcagaggggg atgcaaggag cacaaggcct gcacatccaa gcaagtggta acatggactt 180
 gtacatggaa catccaagc gcaatcagag ctgcagttag cctgtacaac gagctagcgt 240
 aagtcctgc atttcattta attcgtactg gcattcgtgt atgatttgtg tgcagtggct 300
 gatccacgaa ttaagttac caggggcgaa catttaactt aaaaaatacg aaggcacttg 360
 cactctggaa atcaacataa cttgagaaat gtgaagctac atgcactttg gaaactagct 420
 aatga 425

<210> 6230
 <211> 370
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-G9

<400> 6230

aattcacggg tcgacgggga ccacaaggag aagaaggaca agaagaagaa gaaggacaag 60
 aagcacggcg agggccacaa ggacgacgac ggccacggca gcagcagcag cgacagcgac 120
 agcgactgag ccagctccgg ccgcgctccg gcagcagcgt gcagtgtagg cgagatcgat 180
 gaacgcttgg gagaagtgtg gcatacatat atgttgagg gtttgaggcg tgtggtagca 240
 tatgtatgta atgcgtgaca tgtctcatgg atcttgatgt gtataataat tagccggctg 300
 cactgcactg cacggtgctt gtaataataa cgtaaatgaa tcatgttggt attgatgcat 360
 ctccgttggt 370

<210> 6231
 <211> 264
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-054-Q1-E1-A2

<400> 6231

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cgggtccggaa atcacgggtc gaccggatga gatggaataa ccagatcgtg gaccaacaag   60
aacggccgcc cctccgggaa aaaccccccc cttgtggtaa aaacatacgg gaaatccggg  120
aacaaaaaac attaggaacc ccccgaaata aacatgaaaa attgaaaaaa ttgacagata  180
ctgggcaaga tgtcaaacac atctggcttc ctctcaaaaa aaaagataaa aaaaaaaaaa  240
aaaagcggcc gctcaaaagg atcc                                           264

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<210> 6232

<211> 85

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-054-Q1-E1-B2

<400> 6232

```

tccggaaatt cagggtcgac cgggccagtg gctgaattgt tcaaggattc aagagtcagt   60
ccagcgtgaa tacctcggac gtcga                                           85

```

<210> 6233

<211> 385

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-054-Q1-E1-B4

<400> 6233

```

agggtcgacc cggctcagat cagaagacc ttaggttgt tctgtacat gcattcgccg   60
tgtcagcagc caggcgacgc ggaggggatg aagggcagag agagaacatg tttctgtcta  120
ggtcacactg cttacttagg ggaggtggag ggcccgacag aacgcatgca aatattgaag  180
agggccgaga ctaatttgtt aacgggttatt ttttaaggttt attgtctgtt tatttctact  240
tgatttcaac tttctataca tacatacatg caaatgccc aaagtacact ttttacacac  300
gcctcttcgc tggccacctc tcacaacca catacgcagc tcttttccga tagaaaaaaa  360
cgggcggctc tagaggattc aagct                                           385

```

<210> 6234
 <211> 480
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-B5

<400> 6234

cggggtcgacc gggaaggcga agatgtcgtg gcagacttac gtggacgagc acctgatgtg 60
 cgacatcgag ggccaccacc tcgcctccgc cgccatcctc ggccacgacg gcaccgtctg 120
 ggcccagagc gccgatttcc cgtcgttcaa gccggcggag atggccaaca tcatgaagga 180
 cttcgacgag ccgggggaccc tcgccccgac cgggctgcta ctcgcagacg ccaagtacat 240
 ggtcatccaa ggtgaacctg gcgccgtcat ccgcggcaag aagggcgcgg gaggcacac 300
 cctgaagaag accggggcagg cgctgggtgt cgcatctac gacgagcccg tgaccccggg 360
 gcagtgaac ctggtggtgg agaggctggg cgactacctg gtagagcagg gcatgtagac 420
 gacgacgacg accacgccac gccgccgag caccaacaat actaccggcc aaaagacaca 480

<210> 6235
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-C2

<400> 6235

tccggaattc acgggtcgac cgggtgacgc tccaacacat gtccattaac gatgtgtggg 60
 tcaatgaacc caacatcatg gatgttcctt actctgcatt cctcaatctt cattctgcat 120
 gtataatagc ggacacaaca atatagttag gacatatata tagtgcaggc aatatgaacg 180
 agatggggta gaaattaata aatcacttac agaacgtagc aactgatgat agatttatcg 240
 agctcgcgca gattgaaaag ctggaacaat tcactcagtt caatttgtag atagtaatgt 300
 ttgaagtgat gtcctgtct aacttccgca taaatatatt ctttggcgtt tttatttttt 360
 atgtaaccct tgtaccattt cagcagacct ttcatttggt gaggtagatc cttttcctgc 420
 gcaggctcga cgagaggccc attcttgaca tatgt 455

<210> 6236

<211> 433
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-C4

<400> 6236

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gggtcgaccg gcagctgaga gtcactgtca tggcgcgtca cctggtggat cgatctgtca 60
ggcgggcttc tggagtactc gcagctaaga catcctccag aagctatgct aaacttgaag 120
ttttctcttg taagatggaa gtcactgtcg cctggtctct tctcccgtac tggccacatt 180
tacgtgacat gccgtgtcct agcatatgaa tgtggctttg gtttggctct aggtgccgga 240
agtagttatt tatctatgca tgtatgtatg gttcgtaaca agtgtaaagt ggggggactg 300
taacttaagc tgggtgggtg gtaataagcc atatccttct atttgtcaga attactatgt 360
aatatagaca gttcagattc gatggttggt ccaataaaaa aaaaaagaaa aaaaaaaaaa 420
aaaaaagcgg ccg 433
  
```

<210> 6237
 <211> 487
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-C9

<400> 6237

```

tccggaaatc cagggtcgac cggatccaga caacagaatg taaaaaaaag ttacctcatt 60
ttgcaatcta ttatgaattg attcaaccag cagggtttttg tcaaatcca gactgataac 120
tttaacaaga gattcttcat caatctacaa aatcatgaga gaaaccaaca ccttatttga 180
ggacttaa at gaagaaatac atgactaaaa aatcctgtca gctcccatct ggacagtcac 240
acagaaaact gcaagattga ctccaatata cataaaattt taagaaacca gtgagcactc 300
ccatgcatag cctcactaaa tggcacaagg cagaagggtg atgtacagac cccagaaaaa 360
aactttaaaa tatatcatta taaatcatga agagaaatga tgggcacatt tttaaccaca 420
tataaactta accaccaagt ttatatgcct taataggaga tatcaacaat ataaaatatt 480
tttatgg 487
  
```

<210> 6238

<211> 485
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-054-Q1-E1-D1

 <400> 6238

 tccggaaatc acgggtcgac gggactcact accactaggg agcatcatgg aattggtgat 60
 gaaggagggc tgatgatgac gatgatcgaa gattcccctc tccggacccc caaaccggct 120
 ccacatctgg cctcccgatg aagaacagga ggtggcggtg gcttcgtatc gtgaaacatg 180
 atcaaacttc ctctttaatt tttctctcca aaagacaggt ttttatagag ttggaattag 240
 ggtagtgaa gccttggtgg acccactacc caccagggcc tgctagaggg ggatggcgcg 300
 ccctcatgcc tggcgggcag ccctccggtg ggtcttggtt ccataaatca tcatttatcc 360
 caacataatt ccccaaaaat ttccttccaa ttccgagAAC ttttatttct gcacaaaaca 420
 acaccatgat agttctgctg aaaacatcgt cagtccgggt taggttcatt caagtcatgc 480
 aaact 485

<210> 6239
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-054-Q1-E1-D4

 <400> 6239

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 aaaaaggaat aggtacttgg aacggtaagt aaaccgactc aaaaacattt ctaagggcaa 120
 ttttctccg ttttgaaata tttacaaaaa taggaaaata agaagcagtc cgggaaagac 180
 acgaagctc cacgaagggt ggaagtgcg cctaccccct gggcgcgccc cctgcctcgt 240
 gggcaactcg tgtgctcccg ggactccggt t 271

<210> 6240
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-054-Q1-E1-D8

<400> 6240

acggtcagga attccgggtc gaccgggtgc gcgttctgag cgcggtgct gcggacggtt 60
gggctcaagg tcggcgggaa cccgaacgtg tacgccagcc tccttggggg tctgtgggtcc 120
tccgtggcaa acaggtggca cctggagatg ccaggcatcg tagatggctc gatttcgatc 180
atgtcaagga ccggccttgg gatcggaatg tttaacactg gcctgttcat angtctacag 240
gacaagctcg tcgtgtgccg gcctggactg a 271

<210> 6241

<211> 468

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-E3

<400> 6241

gtcggccgga gcatcttctg ggatggaagc gggtgcggag ggcaaggccc agtaaccctg 60
aaagaagaaa gacggccctg cccctgatgt ttggaaggaa aggggctgtg gttagctgat 120
gtaatgttac accgtagaat catcgttcgt gacgataata atgatccgac cagaactcct 180
ctagtatcat tgttctgttg tcattgtgta gtttactctg tatctgaact ttgttttact 240
cagcgaaacc gtactgctat gatgaatgtg tcgatgtaaa tcgtggctgt cgtgcctgtc 300
tgactgatac attgttcatt tagtcgatga atgatagcac ctgtgtcgtc tcagtttcaa 360
aacaaaaact caaatcaaac aaaaaaacta ttatcaatag ccgaaaccaa ccacaattaa 420
attatccaag acacaaaaaa aagcggcccc tcaaaaggat ccaacctt 468

<210> 6242

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-F1

<400> 6242

tccggaaatc cagggtcgac cggagcaaag gcgccgacga caagaagctg gcggggatgg 60
cggcactcac caccgccacc ctctttcttc aagcatccgg ggacgcgagc ccgggcgttc 120

agaagcagcg ctaccagac ctgaccaagg cgcagagga atgctttgaa acctgctaca 180
aggagctgac caatggcggc caaaaactcg acaatttgtg caccagcaaa gagggctcgg 240
acgacatcgg catggcccag ctccccgaaa tccgcagctt catcaaggag aacaacgggg 300
cgcagccca gtggaattgc gataggtgtc gccctgcgaa tgacaagaag acacccgacg 360
atgtctccaa gaagaacgat gccgaaaagg ccatggctgt cctcgaggtg ctcgtcaaca 420
aagtgaccaa attatgaaaa acaaacaaaa cctcattgca tact 464

<210> 6243
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-054-Q1-E1-F11

<400> 6243

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gaggaagaaa atgcgatgct gaagcaacaa ttggaacagt atgagaataa atggtcagaa 120
tatgagacca agatgaaagt tatggaagag gcatggaaga aacagctctc ttctctgcag 180
ttgagtcttg tggttgctaa gaagagccta gctgctgatg acatggtcac ccgagcagct 240
cggactgata ccaactccaac gcatgctcaa tacgactctg aagatacaat gtccacaggg 300
accataccc cagaagggac agagttgaaa taccaaaacc acaaccctga acctagactg 360
gcgacaggaa actcagatag gcggatagat gctgtgaatc acctagcaaa ggagtttgag 420
gacaggcgac aggtattcga cgacg 445

<210> 6244
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-F2

<400> 6244

gtccggatat cacgggtcga ccggactcca gacactgagc tactatacaa aggctggcag 60
gaaaacactt gctgacaatt atgactatgt catgcatgga aagctttaca agatttcaga 120
ggacaattcc agcaaggata aaggacctac taaagtggag atctatgcat cttttggcgg 180

cctcctgatg ttgctcaaag gtgatccttc aagtgtgtgt aacctcgagc tggatcaaaa 240
gctgttcctc ctcatccgaa aggtgtaaac gtgtcatcta cctgataacc agcgcttgta 300
gttcactcaa ggctattaca agcctgtgat cgtttggagg ctaatcgtcc tacaccct 358

<210> 6245
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-F3

<400> 6245

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agtcagccgt cgtcacatca ccctgcttcc aaatgacccc gcattctcta gcgcagtgtg 120
gttgccgtca tcgatctgct cgatgccctc tttgacgatt gaggtgttgt gcatgttggg 180
gtgcaaagaa gcacaagcga gagtggtcac cgtataacct tggatgggga tgaattgtgt 240
gctcgggtgt gtgtgtgtgt gtgtgtgttg tgctccatgt gtgtgtgtgt gtgtgtgtgc 300
atgtgtgtgt gtgtgtgtca gatattgaga gaaaaaacct aaggagagaa atgggtattc 360
acgaagagat tgtgcggggc ttgaggtggg cagggcccgg gtgacggtgt caaaatgtgc 420
gcgttgatgc atgtg 435

<210> 6246
<211> 420
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-055-Q1-E1-A1

<400> 6246

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ggacagagag agaggagaga gagggaggga gaggggtaga gtgctggatg ggtgatggag 120
ttgcttctcg aagagtgggg atgtgtttct gtgtgtgcct gtgcgtgata gagctgtcgg 180
gacgcattcca tggatgatga aggggaacca tgtgtttggt aagcaaacct aactagatcg 240
gtagatcaat tgttgtttgt cggaggaagg gagagacata actaatgagg tagatcgatc 300

gacgcgtggg gaaaaacgag ttataaggac ctagctagct atatgtatag cgggagatcg 360
gtcgggtgtac gtccatttgt tagaggcaaa taaggcccg cgagacggat agacagagag 420

<210> 6247
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-A2

<400> 6247

cgggccagaa atccccgggc gacttccatc aaaacgatat tcatcatctc atcgaaagac 60
gggacacctt tgccctctatc aagtggatc agatttccag gttgctcggg gagattttac 120
agtttttcgt agtttagatc gagtctgttc ttcataccta cagtccacga aaaagccaca 180
aaaaaaaaatt agggttagtt catcatatcc gaaccaatct gagcctttgc ataatctttt 240
tagggttttt gctttgttga atttgcgggt gcacgcgcgt gtcaagttgc tggctcttaga 300
gtctagtctt ttagagtttc gaggctctgt cataagttgt cagccgcgcg ccgcaccatc 360
atcatcgctt tgccatctac caccattgct tatccgcaa cgctttgaat ccgtatccat 420
ata 423

<210> 6248
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-A6

<400> 6248

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aggaaaggct acaatctcgt ggatgcagtc acgaggtgca cgggtgcagg gtatccgaga 120
gggtggacgg cgatcttcat cgcgctggac aacgtgggga tgtggaacgt gaggtcggag 180
gattgggtgc gcaggtaact gggccagcag ttctacctcc ggggtgtacac gccggcgcac 240
tccgtccgag acgagctcac cgtgccgacc aacgcgatcc tctgcggccg cgctgccaac 300
aagagccgcc tgccattctc tcagtagtga gcaactgag gccgctggca gggaatgatc 360
caattgtatc ggagtattag tagtgggtata tgggtgtgcaa gtcgaactgt cgaagactta 420

gtttggctgg tta

433

<210> 6249

<211> 483

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-055-Q1-E1-B10

<400> 6249

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ctctgcaccg gcaacttcgg tgcgtacctg ctcgctgcac ggtggtatac ctacaagaag 120

accgctgact aaacctggcg atcactgtgc cgtatgtgct agggctacttc tttgatgcaa 180

taaacgtgta attgggaaag ctacctgtgt tgccggcaaat cttgaaggaa ctctgctcat 240

agaagattca gaatcgttga tctagaaaaa gttcgtcagc agtctggaaa attcaggttt 300

cagcaccgac tcctgttggg cgcgcgagg agtcgggtag ggcgggcagt aatgcctaaa 360

agcaagggaa actggccggc caactctggc gcgagcatgc tttttactct ttattaatct 420

tttaatcggg ttttctctga ttttttttgc gaatcttgat gtttttaaacc ctttttaaaa 480

atc 483

<210> 6250

<211> 361

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-B6

<400> 6250

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aaatacccca cccactctc tgcgagattc gctaagtctg ttgtgcatta catactggaa 120

tgcgttagtt acctagttac gatcgacta gaacaacatt tgtgtactga gtattcggac 180

aaagtttgtt tttaaagtgg gcaacttttt tgttaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 300

aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaacaacaa aaaaaaaaac caaaaaaacac 360

a 361

<210> 6251
 <211> 458
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-B8

<400> 6251

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 aagaagcctg tggccaccga gaaaaagcct gtcgtcgcca acggtgctgt caagaccggt 180
 gtagctgctt gatcgcatc ctgatcctcc cagctagcca tgaggaacaa acggacgggtg 240
 ctggcgaacc aggcgagaca tgcagggtcc caagtaccga tcaccaaagg tggctggaaa 300
 gcgggttgga tagttaggtt tattccctag ctctctttt cccctgtcat cgtcgttaata 360
 accgtaattc aatttggcta gctctaaaga ctctctata gtggtatcat cggaatcacc 420
 agaaaaagag aaaagagaac ctgtggcaag acaaaggt 458

<210> 6252
 <211> 470
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-B9

<400> 6252

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 tgcatgggac accaaacaga ggatgtcatt gggttttgtg ttgacttcat tcttggcctt 180
 aagaagatag gtctccctaa atcgcggtat gatgggagac tgattggaaa aggcacgcta 240
 ggagcggact caataatatg cagggacggg cattcttgggt ctcaagcaca ctacacagtt 300
 ctacagaact ctaccttgggt gaccccgat gtcgatgaac acaagaatag tctgcactcc 360
 aaacacccgg agcagtgtga cgactggatt acatgtgaac acatcaggac tttcagcagt 420
 tggttggaaa caggtctcag aggtgacaac actgtttgtg atgagctgta 470

<210> 6253
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-C7
 <400> 6253
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 tatcaagatt aggaggggtga atgtagagc taatcttgat atttgattta gcatgtttga 120
 gttttgcatg tagtctagtc tagtgtggtg ttcgtccgac gaaggcttca ggtgagcgcg 180
 ccaaggaggt gagatgccag gatgccgtgt gaggcgggtga gcacggcgag atgccgatgg 240
 tgctgcgtga gaagcggcaa gacatatcag aggtggagc cgtgatggac tgcataaat 300
 tgggtcgggt gaaccggccg gtcgttctgt ttgttgact agctgttcat gcgtgagttc 360
 gtttagtcct agccgagagt atcgttgcta gtagttgatg catgcatg 408

<210> 6254
 <211> 490
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-C9
 <400> 6254
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 ggtggataag taccactctc tcctgagccc taatgcaatt tcatacgggc gggcatataa 120
 aatctagggg cctgtttgtt cttggcctcc ccatacctct cgttccatgg ggatctgtgg 180
 ttggattgga taaaagatgt cgtgtgtgtg tgtgtcttca ggtcccttgg gttcccaccc 240
 caccctcttt ttactggggc gaggccacgc ccggtgctgt tgaaaactca cgcggcggca 300
 catacccaca gataaagatg caagaattta atcgtggagt tgccattgga caagatggcc 360
 agcctcctcc taccgtccag tgccctctca tctactctc tttcaacctg tcatgcacta 420
 gtagcactgc tgccatagac tagtagctgg atgctgcca gagtggctga aagaaggctg 480
 ctttcggcac 490

<210> 6255
 <211> 418

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-055-Q1-E1-D1

 <400> 6255

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 ttcacttata ttattttgag agtcttttag aacagcatgg tattttctat tttcataaag 180
 ttggctcctag aatgatgagc atccaagttg ggtataataa aaactatcat aggaagtga 240
 ttggatgcta tgatcaactt gatacttgat aattgttttg agatatggag gtagtgatat 300
 taaagtcatg ctagttgggt gattatgaat tcaaagaatg cttgtgttga agttagcaag 360
 tcncttagca tgcacgtatg gttaaagttg tgtaacaaat ttgaagcatg aagtgtac 418

<210> 6256
 <211> 484
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-055-Q1-E1-D11

 <400> 6256

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 gcgtggtggc caccctcaag cgcaattgga agcgctccgc catcatcaac atcgtcttcc 120
 tcgtcttcat catcattgtc tactccgtcg gctgctgcgc cttcaggaac aaccgccgcg 180
 accaccgcaa cggcggcggg tacaagcagc agggcgcgta cgctgatcg tttggctcgg 240
 ttattttattg cttggattgg atggatgcga tcgtcgtgtc attttcattc atcgtcgtgc 300
 ttctcttagg atggcctgat ctagctttgt acaggcgaga ttattctgtg ctctgatcat 360
 ctactagtta ggttctatac tccgtgggtc tgangagggt tgtgtatata tcttttctgt 420
 tctttgatat gtatggcaga ccattatata tgtaacggat tattctggag ttatttattt 480
 cata 484

<210> 6257
 <211> 440

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-D5
 <400> 6257

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 aacaccaata taaataaaga atgagtttat tacagtacct tatgtggtgg tttttatttc 120
 tttcactaac ggagcttatg agatttcctg ttgagttttg tgttgtgaag ttttcaagtt 180
 ttgggtaaag atttgatgga ctatggaaca aggagtggca aaagcctaag cttgggggatg 240
 cccatggcac cccaagatat tcaataatag ccaaaagcct aagcttggcg atgcccgggg 300
 aaggcatccc ctctttcgtc tttgttcatt ggtaacttta cttggagcta tatttttatt 360
 cgccacatga tatgtgtttt gcttggagcg tcttgtatga tattagtctt tgcttttttag 420
 tttaccacaa tcatccttgc 440

<210> 6258
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-D8
 <400> 6258

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 ggctcccaa aacaatgttg ggcgccatgc atgcaatgtg gaacaaggaa ggcattcccag 120
 ggttcttcaa agggttacat gctcagatac taaagacagt tctgagctcc gcattactgc 180
 tgatgataaa agagaagatt tcaaagttca cttggatctc gctgcttgcc ctgcggcgat 240
 atctctttgt ttctcggaag agaatcaaga gtgcatagtt gtatcatgca tatgtcagac 300
 ctgagaaaac cagtctaate gtccactggg atttcaagat cgtattatac caaataacag 360
 aagtacagaa gcagaacagc acgatcatct tgagagcgcc atggaatgtt ctgaataaat 420
 ttgtttgttt ttccatgtag tagctctgaa catctg 456

<210> 6259
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-E2

<400> 6259

ggatcaagaaa tccccgggtcg acgggggagaa ggacattgga gatggaacgg tcagctatgg 60
aatggatgat gctgatgaca tatacatgcg gtcattggact ggcaccatta ttggccctca 120
caatactgtc catgaggggtc gcatctacca gctgaagctg ttctgtgaca aggactaccc 180
tgagaaggca ccatctgtta gattccattc aagaatcaac atggcttgtg ttaatcacga 240
gactggggcg gttgacccaa agaagttcag ttgctagca aactggcagc gggagtacac 300
tatggaacat gtcttgaccc agctgaagaa agatatggcg gcgacgcaga accgcaagct 360
agtgcagcct ccagaaggga cattcttcta gcggggtgtt tgctggccca tctcca 416

<210> 6260

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-E5

<400> 6260

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agccgggttg gtgagaaggc tatgccgttg tatcaaatga tgaaaagac ggatgacttt 120
gtctggagtg acgctgccaa ctctctcttt gaagatttga aaagacagct tgctgagcca 180
cagtttcttg ctgccccctg tgagaaggag ccgctattgt tatatgtggc tgctaactca 240
cgggccatca gtgtggccat tggtgtggag tgcaaggagg ctggcaagga acatccggtt 300
caacgaccgg ttactacgt caatgaggtg ctatttgaat ccaagcaaag atatccacat 360
tggcagaagc ttgtttatgg ggtgttcatt gcaagccgga agcttaagca ttacttccag 420
ggtcaccc 429

<210> 6261

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-E6

<400> 6261

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 gatgttacag tacatggaat atgctggcaa gatcacacta tagagcaatg atgaataata 120
 gctatcacta catgcatatt tggccggtgg aggctctaag tttaatgttt gcataaagcc 180
 gattttccct acaacaaagg aataactttt atttgctacc aagttgaatt acccatattg 240
 agaaggtttc tccaactcaa tcccaaatta ccaagtataa aataactaacc caacaatttc 300
 attagacaga atgatgagat taacatataa tccaaatacc agatactcaa gatgtccata 360
 actggggaca cggttaacca tgattagttt gtacactcta cagaggttgc gcactttttc 420
 cccacaagac tcga 434

<210> 6262
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-E7
 <400> 6262

ggtaccgata tacaattccc gggccgacgg gaagcagcaa ccaacttacc aaaagttgat 60
 tataaagcat gctaattctga aaaaacttag tctatggggc tggtctgcaa tagatgccct 120
 atatgtaaat tgtccagagc tgagtgatct gaacctcaac tcttgcataa atctgaatcc 180
 agaacggttg cttcttcagt gtccaagctt gaaagatgtt catgtcactg gatgccgtga 240
 catgttgatc ggagcaatca gaaaccaggt tctgaatgag tttgcagcag gagagcctcg 300
 catgccttgc aagcgccttg ctgatggctc gaagcgggtg caagtccttc agttcatgcc 360
 agaacagcag tttgaggacg agaaatggtg cggcgagtcg cggcgaagcc agtgcgccg 419

<210> 6263
 <211> 466
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-F10
 <400> 6263

cgggtcgacc gggctctgttc aatcatctac agaatttagt cctcatcaga gatcctgagg 60
 actccacaaa gtactatccc cgttttaacc tggaggatac ttcaagtttt agggacttag 120

atgaacatag cacaaatgtc cttagaagat tataccatga ctattatttc gttcgccaag 180
 aaaatctttg gcgacaaaat gcactgaaga ctctacctgt tctattggac tggtcggata 240
 tgttggcatg cggggaagat cttggcctta tccctgcttg tggtcaccct gttatgctag 300
 aactcgcgtt gattggattg cgtatccaga gaatgcctag tgaaccaggc ttggaatttg 360
 atattccgtc caagtacagc tatatgacgg tttgtgctcc ctcatgtcat gattgctcga 420
 cattacgtgc ttggtgggaa ggagatgaag ggacaagatg tcgttt 466

<210> 6264
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-055-Q1-E1-F3
 <400> 6264

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 attatcaatc tcatatttat catgggcctt aaataaattt caagttcata agaaaaatca 120
 cccaatcac gatcatcaca acaaatagta gtcatagcaa aactagcatc cccaagcttg 180
 aggttttgca tatcattagc acaattgtca ttaagagaat ttatgatagc atcatttcaa 240
 tcatgctttt catcgaagga actatcaagt acgggtgcaa tagcaacaat ctcatgttta 300
 acataaggaa ctatagcaaa ttcatattca taaatattgg catcatggcc acaagaatag 360
 caagaatcat gatcatcaag ggatatttca atcatatctt cggaatcaca attatc 416

<210> 6265
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-F5
 <400> 6265

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 ccttacaaca cgctgatatg caaattgcgg ctgcgcgggc acataccggt gcaccaaadc 120
 gagtctaagg aatctgtgca acaggggtgtg caacacgtga tgccggcaat gcagctgctt 180

gccccccggc accgcccggca acgaggacat ctgcccctgc tacgctcaca tgaccacgca 240
cgaaggccgc tatagttgcc cacgatacaa tcgcatctc cacggtcaat cacgactact 300
acataatcga tcgtcatggc ctctcaatta atatcacatc cacgatgagc gacagctaga 360
ctagcatgaa gcacgatcga tatgatacat gtactactca agctagtgtc gcaaactatg 420
taccttgtgc ccaccata 439

<210> 6266
<211> 414
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-055-Q1-E1-F8
<400> 6266

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gcagcgacag cgacagcgac tgagccagct ccggcccgct gcagtgcagg ggagatgaac 180
gcgtgggtta atttggagcg tgtggttagca tatgtatgta atgcttgaca tgtctcatgg 240
atcttgtaat gtaataaccg gctgcactgc atgggtgcttg taataataac gttaaggaat 300
ttccattggt aacaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaacaaaaa acaaaaggaa 360
aaaaaacaaa aaacaacaaa aaaaaaaagc ggccgccta aaggatccaa gctt 414

<210> 6267
<211> 273
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-055-Q1-E1-G1
<400> 6267

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cttgtaagtt gttaaaaatg aaagaaacaa caatggggtg gttgatttct aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaccggccgc caaaaggat caaagcttac gtaccgtgc atgcaacgtc 240
aaaactcttc aaaagtgtca caaaattca att 273

<210> 6268
 <211> 421
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-G5

 <400> 6268

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 gcagcccaga aaggcgcccc cgagataagc ccctggccaa atcatgagta ttcaaagact 120
 cgacgcattc atatatcagc ctctttactt cataatttta acatgttgaa tcatgtactt 180
 gcacttcggc tcgttccgcc ctcgagcgat cctcatcttc ggggaactcg ctggacccaa 240
 aggtgatgga caatgggtcc cttccgacgg ctcctctccc cagggccatg gatgacacca 300
 aggtgttgtc ccaaaggatc ccaggctagg gagagacgca tgaggccttc agggcggtga 360
 cagaaggcga gacctcgacc gcctgacaca tgggggagaa gatcccatgg agaccggcga 420
 t 421

<210> 6269
 <211> 180
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-G6

 <400> 6269

 gacgggggtac taaaaaaaaa aaaacaaaaa aaaaaaaaaa ataaaaaaaaa acaaaaaaaaaa 60
 aaaaaaatga aaaaaaaaaa aaaacaaaaa aaaaaaaaac cggacgccct aaaggatcca 120
 accttactta cccttgcgatg caacgtcaaa ccccttctaa actgtcacca aaattcaatt 180

<210> 6270
 <211> 455
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-G7

 <400> 6270

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gattgaagat gcaaacaaaa atatagttgg acacttccat tctcagctca ctcaagacat 120
gaatatcttg catagaaaca tctcaacttc ggtctctcaa caggagagcc aactgaaagt 180
acttgaagag gagatgcaat cttttatcac ctcgaagggc aagggttggtg gaggacttca 240
aaatcaagta agagaaatga aagagagctt cagttcaagg attgcagaat tgcattggctt 300
tgctaattgag ctcaacctca aatcccaatt aagctctgag aagctgaatg cccaagttag 360
cgcacacaca tctgatctgg aggattgttt gaagggcctc ttagctgatg ctgaccaatt 420
actcattggg ctacaaaatg ggctccctca gcaag 455

<210> 6271
<211> 165
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-G9

<400> 6271

accggtcatg tattccgggt cgacgcgggg agcttttaaag atctagaggg gggaaaaaaaa 60
aaaagcggcc gctcaaaagg aatccggccg cacgtacacg atccatgcta acttacacgt 120
ctacgagact tcaaaccact tccatatcgt caccatctt caaat 165

<210> 6272
<211> 437
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-055-Q1-E1-H1

<400> 6272

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gggaagtcgg ccgccaagga gggcggcgac aagaagggca agaagaaggc caagaagagc 120
gtggagacgt acaagatcta catcttcaag gtgctgaagc aggtgcaccc cgacatcggc 180
atctcctcca aggccatgtc catcatgaac tccttcatca acgacatctt cgagaagctc 240
gccggcgagg ccgccaagct ggcgcggtac aacaagaagc caaccatcac gtcccgggag 300
atccagacct ccgtccgcct cgtcctcccc ggcgagctcg ccaagcacgc cgtctccgag 360
ggcaccaagg ctgtcaccaa gttcacctcc tcttaggctg ttcgtcttcc tgtgtctcgt 420

anttagctgt tccggtg

437

<210> 6273

<211> 419

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-055-Q1-E1-H3

<400> 6273

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gaaggcgaag tcggagtcgg agtggagata gatatggacy tgacaggtac agagagaggg 120

atcatcatcg tcgtagcagg agtccttagcg ctagtcttga tgattacaag aggcgtggca 180

gagacagaag tcctagtcgt agcaggagcc gcagctacag tcctgatgat gacaggaagg 240

gtggcagaga cagtttgtcg cctgcacgca gaagcactag tcgctccoct cgcaagacac 300

cacctctcg caagacacca cctcctcgcg aggggtctcc tgctaggcgc aatgatgacc 360

ggtctctgt tgggcgcaat gatgaccggt ctctgttag gcgcaacgat gaccggtct 419

<210> 6274

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-H5

<400> 6274

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gatcactgaa tatgatattgt ttgattcctt gcaatagttt tgcgatataa agatgggtgat 120

attagagtca tgctagtggg tagttgtgga ttgtagaaat acttgtgttg aagtttgtga 180

ttcccgtagc atgcacgtat ggtgaaccgt tatgtaacga agttggagca tgaggtatatt 240

attgattgtc ttcccttatga gtggcgggtcg gggacgagcg atgggtctttt cctaccaatc 300

tatcccccta ggggcatgca tagtattact ttgcttcgag ggctaataaa cttttgcaat 360

aagtatatga gttctttatg actaatgtga gtccatggat tatacgcact ctcacccttc 420

catcattgct agcctc 436

<210> 6275
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-H7

 <400> 6275

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 gattttctcca tgggtggacag gattttgttg ggatattcaca atatctctta tattattaat 120
 gcatctatat acttggtataa ggggtggatgg ctccggcctta tgccctgggtgt tttgttccac 180
 tcttgccctcc ctagtgttccg tcataccgggt gttatgttcc cggattttgc gttccttacg 240
 cgatcgggtg atttatggga cccccctgac agttcgcttt gaataaaact cctccagcaa 300
 ggcccaacct tggttttacc atttgctca ccaccaccta cttttccctt gggagtcgct 360
 ctctcgaggg tcatctttat tttagcccc ccgggccaat gcttgtctaa gtgctggtcc 420
 aaaccgagcg atg 433

<210> 6276
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-H8

 <400> 6276

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 cgcgtgctga acgtgctccg cgacgacggc gggatcacgg tgaaggggca cgtgcagaag 120
 ccggtgctca aggagcgggt caagcagttc aacgcggcca tggacgagat ccagcggacg 180
 cagggcgcggt ggggtggtgag cgacgagcag ctgcagtcgg agctccgggt atccatcgcc 240
 gccgtcgtgg tgccggcgta ccggtccttc ctccggccgt tcgcgcagca cttcaccgcg 300
 gggaggcaga cggagaagta catcaagttg agcgcggacg acctcgaggg catcatcgag 360
 gagctctttg agggcagcgc cgggtcca 388

<210> 6277
 <211> 174
 <212> DNA

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(continued)

(continued)

(continued)

(continued)

(continued)

(continued)

[illegible]

(continued)

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(continued)

[illegible]

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(continued)

(continued)

[illegible]

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tcatttaaaa ttttttgcac accaccatcg atccaaattg taacgtccct acataagcga 360
cgatgtctac cgtaccgg 378

<210> 6280
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-056-Q1-E1-E7
<400> 6280

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cgctccacc gccaacacc gcggcgacag cagcgccgac atcgaccccc gcgagctcct 120
tcctcgccat ggttcaatag gcgctcagca ccatggatca tcagtatact tccagttcca 180
gacagacaat aacctcgaag catcatcacc atcaccatca ccgagtcacc gttccatgcg 240
tcacctctc gagtcgatca tcgccatcac atcacaccat caccgacgac gactgttctc 300
tttcaccttg taattcctct cgtgccattc cattatttat tgattcggtc tgtgtaataa 360
gagcctctct tctgttccct aaaccggc 388

<210> 6281
<211> 249
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-056-Q1-E1-G6
<400> 6281

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agctctaagt aaactgcgta taaatcatgt atgtataagg tatgtgttac tgatgttaga 120
agcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagcggccg ctccaaagga tccaaactta 180
cgtatgcctg caaacgaaat cataactcat ccagagagtc acataaaatt aaatcacagg 240
gccttttta 249

<210> 6282

<211> 374
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-056-Q1-E1-G7

<400> 6282

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 gacaagaagc acggcgaggg ccacaaggac gacgacggcc acggcagcag cagcagcgac 180
 agcgacagcg actgagccag ctccggccgc gctccggcag cagcgtgcag tgtagggcag 240
 atcgatgaac gcttggggaga agtgtggcat acatatatgt tgcaggggtt ggagcgtgtg 300
 gtagcatatg tatgtaatgc gtgacatgtc tcatggatcn tgtgatgtat aataattage 360
 cggctgcact gcac 374

<210> 6283
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-G8

<400> 6283

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 gatgatgttt ctgagtcaga ggtageccct gactcccttg gccaatctcc aactatctta 120
 ttgacactga ctattgccag gacgacacgg gggccagcca ggccgtggaa gaagaggtaa 180
 ctatttcctc cgactcagcc cctttgccga gacaaaaact tcgaatggta acccggaag 240
 taaggttttc acaccatttg gcttatttgg accctcattt tcttttgaaa agcagcaaca 300
 tgagagtcac cgtcaggccc ggactaatga tgatgatgat gaaccacctt ccgaattaca 360
 aaaaactcat caaaaatgcc agaatgaggt ttctttcacc tttgtccttt tgttttatcc 420
 atgaat 426

<210> 6284
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H1

<400> 6284

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gtaatatcaa gttcattaag atagtcatca agaccagaat tcttgaactc ggtcccatg 180
tcacttctga tgtgcttgat cttcacacca aagttggttg aagccctcga ggaaaatcgt 240
ttgaagactt cctgcacctc atgtttgtaa gtgacaatgt gcacccatgt gtaacgagaa 300
taatcatcaa caataacaaa gccatataga gacgcacatc ttgtaactgt ggaataatga 360
ttaggaccaa agagatccat gtgaagcaat tcaaattggc gagtggtagt catgatagtc 420
tttgctggat g 431

<210> 6285

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H5

<400> 6285

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acaagtttct taggacttcc taatttggtg gaatttttgc gggtccagaa gtatacgttt 120
gttacagatt actacagact attctatttt tgacagatcc tgttttctat gtgttggttg 180
cttattttga tgaatctatg agtagtatcg aagggtatga accatagaga agttataata 240
cagtagatat tacaccaata tgaatttaga atgagttcat tacagtacct aagtgggtgg 300
tttattttct tatactaaca aagcttacga gttttttggt gagttttgtg ttgtggagtt 360
ttcaagtttt gggtaaagat tcgatggact atgggataag gagtggcaag agcctaagct 420
tggggatgcc ca 432

<210> 6286

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H7

<400> 6286

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ataccccgaa ttccctgtt tagatggaca aggaatcagt ccaccgaatt ggcctcaa 180
attgggtggc ccgcttcgaa agcccgctc tctattccca aattcggagg gggcgagctc 240
gattttcggg gatattcggg aaccagcccg cgacttaccg cttcgaccgc tccagaaaag 300
gaagaggtgc actcgagcgg gagagaaggt gagcacaacg gcggcgcatg tcagacaact 360

<210> 6287

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H8

<400> 6287

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taccocgaaa ttccctgaa aaaatggggc ccccaaaaag tttccagcct tggtttccct 180
tattggaagg ccaaaccct taaaaagggt ccccaactt aatttcaggg gcggttattt 240
aaaaattccg tgatgggaaa aacctaggct ttacacaatt taacccctt ggacaaaaac 300
cccctttcgc caattgggct aaadacaaag gggccccac cgttgcccct tccaaaaatt 360
ttccc 365

<210> 6288

<211> 457

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-057-Q1-E1-A6

<400> 6288

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tggtcattca catggtagt cataaaatac tacataaact tgtagatcgc tgaatatgat 120

atgtttgatt ccttgcaata gttttgcat ataaagggtg tgatattaga gttatgctaa 180
 tgggtgaatg tggattagta gaaacacttg tgtcgagggt tgtgattccc gtagcatgca 240
 cgcattggtga actgctttgt gatgaagttg gagcacaatt ttattttattg attgtcttct 300
 ttatgagtgg cggtcgggga cgagcgatgg tcttttccta ccaatctatt cccctaggag 360
 catgcgcgta gtactttgtt ttcaatggct tgtagatttt tgcaataagt atatgagttc 420
 tttatgacta atgttgagtc catggattat acacact 457

<210> 6289
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-B10

<400> 6289
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 ggggataga ttggtaggaa aagaccatcg ctcgccccg accgccactc ataaggaaga 120
 caatcaataa ataaatcatg ctccgacttt atcacataac ggttcaccat acgtgcatgc 180
 tacgggaata acaaacttta acacaagtat ttctcaaatt cacaactact caactagcat 240
 gactctaata tcaccatctc catatctcaa aacaattatc aagcatcaaa cttctcttag 300
 tattcaacac actcgtaaga taattttatt attaattctt tatacctagc atattaggat 360
 tatttaagaa aattaccatg ctatttaaga ctctcaaaat aatcta 406

<210> 6290
 <211> 122
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-D9

<400> 6290
 agtgagtcgt attaggacag ctgcacggac ggagcgggtca ggggtgtcaag gcacgcggca 60
 gtcgaagtca tacagaattg cagcaccaca gttgaacagc gaccgcggga acgacgtgcg 120
 ag 122

<210> 6291

<211> 338
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-E10

 <400> 6291

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 aaataatgct cttgttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcggc 180
 cgctcaaaag gatcaaacct aatttacctt tgaatgcaac ttcaaacctc ttcaaaattg 240
 taaccaaagt taaattcaag ggccttcgtt taaaaacttc ttaacgggaa aaacccgggc 300
 ttaaccaaac taaatcccct tgaaaaaat cccccctt 338

<210> 6292
 <211> 312
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-E5

 <400> 6292

 tgagtcgtat tattgcagaa tgaaatccac tcaacctctt gcaatctcca tcaaaactgaa 60
 ctgaacaggc tgtaaaattt aaggagagaa ataagctgac agcctgcccc tttctacttt 120
 gcagcagcca gatcaatgtg catataactt gcgctcattc cttccaatat gtagtactct 180
 tccaagttta taaaatacga aagtggcccg gcacgcaccg ttccacaccc ccaaaggat 240
 caaacctaac aaacgcggcc gctccacatg atccaccctt acgtacgcgt ccatgccatg 300
 tcttacctct tc 312

<210> 6293
 <211> 408
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-E6

 <400> 6293

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caaggcaatg aacgaaagaa ttctctcggt ccttgatgcg tctggctctg gccgcgttga 120
tcttgggatg ttctttgcta gcattgctcc aatctgttct gggcctgtgg ataggcgcaa 180
gcgtgtcgtc ttcgatgcac tcctttggcg tcttgcaagc gaaggtggta ggggccagat 240
caggaggagt gacgcgctaa gttacattaa acttctccgt gccgtttaca taccaacca 300
tggggctagc gacatgcttg aaatgcatgg ggagtctgac cctaccatgg tatcgtaac 360
acaggttcct tgagatgttc aatgatcctg attggggttt tggaattc 408

<210> 6294
<211> 372
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-057-Q1-E1-E9

<400> 6294
tagtgagtcg tattaactcc ctccgttcct agatgtaggg tgtacaattt ttgacagga 60
tattacagaa cgcacatgaa aggataattt cacaagtttt gggcgagggt acacctgact 120
aattaacatg agaaaataga ggagattgcc taatacatgg aaatgtaatt atatccctaa 180
aaaaattatc cacacgagtg gtgcaacgca atacacotta tatttcaggt tctttctcaa 240
aatcctatac accttatatc aaggaacgga gggaatactt acttactcgg tcaatcaatt 300
aacacgacat ccgctagccc cattacatgt gcacacggat cggcaatgga tcgatcaacg 360
gctggagacc gc 372

<210> 6295
<211> 148
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-057-Q1-E1-F8

<400> 6295
gtgagtcgta ttacaactac gacaatgact acgacgtcga ctacgacgaa taccttgacg 60
accatcttgt tccaagaacg gggctcaact acagtctgtc tactagcacc agtccatcg 120
tacttggttc catcatcgcg tcgattgg 148

<210> 6296

<211> 382
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-F9

 <400> 6296

 agtgagtcgt attatgcaca gagaaggcat caataatgca acgaactctg taactgttgt 60
 tgctgcgctt tttgctaccg ttgctttcgc agctatatct actgtacctg gtggaaatga 120
 caacaatgga gttgcgattg ttgtccagac tgccctcttt aggagattct tcagctttaa 180
 tgccatagct ctgttcacat cattggcggg ggtcgtgggt caaataacag ttgtcagggg 240
 tgaaacaaag tccgagcgaa aggttggtga ggtgatcaac aagcttatgt ggctggcatc 300
 agtttgcaca accatttctt tcattgcctc atgctacact gtgcaaggcc gccatttcca 360
 atgggcagca atactggta gt 382

<210> 6297
 <211> 431
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-G11

 <400> 6297

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 cggcacaaga gaggctagca atgggtggaag ggtgagagtg cgtatgatcc atggactcat 120
 cattagtcgt aaagaactca tatgcttatt gcaaaaatct acaagttatt gaaacaaagt 180
 actacgcgca tgctcctagg gggatagatt ggtaggaaaa gaccatcgct tgtccccgac 240
 cgccactcat aaggaagaca atcaataaat aaagcgtgct ccaacttcat caciaagcgg 300
 ttcaccatac gtgcatgcta tgggaatcac aaacttcaac acaagtattc ctcaaattca 360
 tgattactcc actagcatga ctctaatac accatcctca tatctcaaaa caattatcaa 420
 gcatcaaatt g 431

<210> 6298
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-057-Q1-E1-G6

<400> 6298

ttccccgggtc gacgggttct cccagctac gccaaatctg gaggcacctt caccaggcct 60
attcgtaagt acggcaagca cgtgttctcc cacatatgac attctgctgc gtcaagcagc 120
cgctggcggt tcagaagggt gcctactacg ccatccatca catgcggggc atcgtaacggg 180
accatcatca acttctgcta ccgagtaaac tcaaagattg ggccgcgagc gtgtcggcaa 240
tccaggacgc ggacatcaga caagaattct ttcgcatcca gtcggagttt gcagaaatca 300
tccatcaaga tgtccttctg acctcggggc agttctacct cagaaatcaa ccgtccaaca 360
gtgacatcga cacaatgcta caaatgcagg ctgacaacgc ccgttatttc atgactccca 420
tgatagacgg cggcttcacg cacgct 446

<210> 6299

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-057-Q1-E1-H10

<400> 6299

accctatagt gagtcgtatt attactcttt acgaatctga aaattttgac atacttgaat 60
attgctatga aaactatgct cataatgtct atgtcaaaga atttattgaa agaatgaccg 120
ttgcttctaa agaaaataat gatacgcgatg aatctttaga taattgtgat cccgatgatt 180
tgattgaaat atcccttgat gaacatgatg ctttctatct ttgtggccat gatgccaata 240
tttttgaaga cgaatttgct ataattcctt atgttaaaca tgagatcatt gctattgcac 300
ccatacttga tagttccttc cacgaaaagc atgactgcaa tgattttact ataaattccc 360
ttgatgtcaa ttgtgctaatt 380

<210> 6300

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-057-Q1-E1-H9

<400> 6300

ggtctaaaat tcccgggtcg acgggttcct tgattgaaaa gtatgatatt actctttacg 60
 aatctgaaaa ttttgacata cttgaatatt gctatgaaaa ctatgctcat aatgtctatg 120
 tcaaagaatt tattgaaaga atgaccgttg cttctaaaga aaataatgat acgcatgaat 180
 ctttagataa ttgtgatccc gatgatttga ttgaaatatc ctttgatgaa catgatgctt 240
 tctattcttg tggccatgat gccaatattt ttgaagacga atttgctata attccttatg 300
 ttaaacaatga gatcattgct attgcacca tacttgatag ttccttcgac gaaaagcatg 360
 actgcaatga ttttactata aattctcttg atgtcaattg tgctaataat atgcaaaacc 420
 t 421

<210> 6301
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A1
 <400> 6301

ggtaccggtc aggaattccc gggccgacgg ggatgacaag atgaagtaca ccatagagtt 60
 ccagaagcac aaagagggcg gaagcagtag cgctcctgct gccccagcga cagctgcgac 120
 ggtggtgacg agttcggccc cgacaggcag caccttcctt gccgttcagt aggcgcccgt 180
 gccgaaagaa accaggaaca agcttcccct tcggttcattg agcaccagca gcccttggca 240
 acatcctata ccatttggtg atttgtttcg gtaataccaa cctcattggt caaaagacaa 300
 aaggaaaacc aaaccgaaat aagtggctcc cctctgtgat ttcataagta cactggaaaa 360
 caggggaggt gccagattaa tagaaatccc aaacagc 397

<210> 6302
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A10
 <400> 6302

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 ttgagagttg gtgcaaactt cgccggtgcg tccaaacccc gtgatatgat acgctctttc 120

acacataaac ctccttatat cttcctcaaa acagccacca tacctaccta ttatgtcatt 180
tccatagcca ttccgagata tattgccatg caactttcca ccatgcattc cgtttatcat 240
gacacattca tcattgtcag attgcttagc atgatcatgt agttgacata gtatttgtgg 300
caaagccacc gttcataatc ctttcataca tgtcactctt ggattattgc atatcccggt 360
acaccgccgg aggcattcat atagagtaat attttgttct aagtatcgag ttgtaattct 420
tgagttgtaa ataaatat 438

<210> 6303
<211> 429
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-A4
<400> 6303

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cgagatttct gttgagtttt gtgttgtaga gttttcaagt tttgggtgaa ttcttttgat 120
ggattatgga acaaggagtg gcaagagcct aagcttgggg atgcccattg caccgccaag 180
ataatacaag tacaccaaaa agtcaaagct tggggatgcc ccagaaggca tcccctcttt 240
cgtccacttc catcggtaat ttacttgtag ctatatTTTT attcaccaac atgatattgtg 300
ttttgcttgg agcgtcttgt attatttgtg tctttgcttg ttagtttacc acaatcatcc 360
tttctgtaca cacatcttga gagagccata cattaattga aatttgtag aatactctat 420
gtgcttcac 429

<210> 6304
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-A6
<400> 6304

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gcggggaaag aagggatatg agaaggagaa aagcatttcc aatagcaagg tgaaggcttc 120
taaagtacag aacgaagaaa ccggttctga tgatgaatgc aagccaaaat ctgagaagag 180

aagtccagct gcgggcaaac ccaagatttc caagattaag aaaccaaag gtgaatatga 240
 tgatacaaag gaggaaaaga aaataaaca ggaagttggt atcaagaaag atgaaacgaa 300
 ggctgctggg gtgaagaatg agggggcgac ttctacatgg ctgaaaccta tgatgtccat 360
 gtcctcggca tcgatctttc tatcaacatg gtttcgttcg caattgatcg tgccatcggg 420
 cgctcatgct 430

<210> 6305
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A7
 <400> 6305

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 tggagtgact ctttgttgca tgttgaggga ttgttatatg atctatgtat gttattattg 120
 ttgacagaac ttgcactagt gaaagtatga accctacgcc ttgtttccta ccattgcaat 180
 accatttacg ctcactttta tcattagtta ccttgctgtt tttatatattt cagtttacia 240
 atacctttat ctaccttcca tattgcactt gtatcactat ctcttcgccg aactattgca 300
 cctatacaaa ttactattgt attgggtgtg ttggggacac aatagactct ttgttatttg 360
 gttgcatggt tgtttgacag agaccatctt catcctacac ctcccacgga ttg 413

<210> 6306
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A8
 <400> 6306

ggtacaggtc aggaattccc gagctcgacg gggaacgtaa tccccacggt acgccggttc 60
 caagttcagt atccgcccc gcattggcca tatcgccatc cgcaatgccg cgctaagtga 120
 gcacatgctt gccgtacata catgccgaag aactccacgc cggcggctcg ggtcgcgtct 180
 gccgccatgg tagcgtggc tgtcgctaac cgcgtgctcg aaaagctcgc gctggtgccc 240
 ctcaagtcct acgccttctt cctcgctcat ctacgatgt tcgggtacct cggcctgtac 300

gtttcaatac gctaagtgat gtaccgcgcg ggggtggtga ccctggacat gctggaactg 360
ccacagatcc ggttcgtgt c 381

<210> 6307
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-A9

<400> 6307

taccggtcta gaattcccgg gtcgacggga agttataaga cgaccatcta gaaggagggt 60
gtgacgtcaa gcacaagcac tattatcacg ggaacatgct ataatgatgg cgccatgatc 120
ccattgagaa gtcgagggca cattta 146

<210> 6308
<211> 220
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B1

<400> 6308

ggtcaggaaa tcccgggtcg acgggaacac gatcatccgc ttctaaaact ccgttgacaga 60
agaatgtcct taagcaggat agcagaggtc caagacgatc gaataagcac ggcctcccgt 120
ctgggagttc ctaacgacac ctggatctcc ggggtcttca agtccttcca tccatacacg 180
gtggcatctg gcaccaccga tacaccatcg ggctgcac 220

<210> 6309
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B10

<400> 6309

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cgctacagga tgcaggattg cgtgcgcatg catgctaagt tcatactctt caaaaatgtc 120
tgcgaaatgc aagtaagagg ccgtcgctt atacctacc aacggggaac aatttacgt 180

cacctatatc aatagccatg cagcagatct cactttcgca atctaggata a 231

<210> 6310

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B12

<400> 6310

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tatgctagtt tgctcgctct ttgctatgc cattgctatg atgcctacca attgcttgca 180

agcctcccaa attgccatgt caaacctcta acccaccttt atcctagcaa accgttgatt 240

ggctatgtta ccgctttgct catccctctt tatagcggtg ctagttgcag gtgaagattg 300

gaggtcgttc cttattggaa catcttttat ttacttggtg ggatatcatt atattgcat 360

gttatcttaa tgcacctata tacttggtaa agggtggaag gctcggcctc tcgcctagtg 420

ttttgttcca ctcttgccgc cctag 445

<210> 6311

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B2

<400> 6311

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cacctcttct cgtcggccat caagcacgca cgtcgccggt cgcctccatg tcgccgcctc 180

tcgagagctt tgtgcgtgga agagagccgc ggggtgtgag aatgagatga aacacgttcc 240

aagggtcttg ctgcaaagt atgctgtgcc ggttactggg tgggtcccat ggggtccaggt 300

ggcaacggtc tgccagtcaa cgcaactgca gcgagtttgg gacctgggtt gtacgccttg 360

aaaacatttg ggaccaatt ctatactttt gaagtttttag gactagattg acaca 415

<210> 6312

<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B3

<400> 6312

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aagtgaacaaa gattttgcaa caagcctgac atgcgagctc tacatgatcg aagcttattg 120
tgacatcaaa gcgacttcag agctcttaga ggaagacatc gcagtcaaag t 171

<210> 6313
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B4

<400> 6313

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cagcgacagc gactgagcca gctccggccg cgtgcagtgc aggggagatg aacgcgtggg 180
ttaatttggg gcgtgtggta gcatatgtat gtaatgcttg acatgtctca tggatcttgt 240
aatgtaataa ccggctgcac tgcattgtgc ttgtaataat aacgttaagg aatttccatt 300
ggtaatttgg taccatcctt ttttccaagc tttttgtgta tgtatgtatg tatgtggtgt 360
ctctgttcat ctctggatct ctccgaccga gcgtgattaa cggctggggg atcttttagga 420
atggtt 426

<210> 6314
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B6

<400> 6314

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cacaatcatc cttgatgtac acaccttttg agagagacac acatgaatta gaatttatta 180
gaataactcta tgtgcttcac ttatatcttt tgagctatat agtttttgct ctagtgcttc 240
acttatatct tttagagcac gtcagtgggt ctattttata taaataattg atctctcatg 300
attcacttat attattttta gagtccttta gaacaacatg gcaattttct tttaggcata 360
ataagaactt tcatataagt gcattgaata ctaagagaag tttgatactt gatgattgtt 420
ttgagata 428

<210> 6315
<211> 354
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-B7
<400> 6315

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ttcggactgt ttgcgtgaaa ttttgctcta tagctatttt tgggtggctt tctttgtttt 180
gctttatgtt gtatagtcag tagaaaactc aagccccatc atctaacaat tctgtagtaa 240
tgactgaaac tattcgagga caaatcttgg attggtgttg tcggttgaat ttagagttgc 300
atggttgaca cgggtcaacat ggcaaagaaa gtatagaaga tttgccaac cagg 354

<210> 6316
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-B8
<400> 6316

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ctacacttca catgtgtaaa tctgcacttg atggtctcat tgcaggtctg gacaaatttc 180
cagaggatca agatatatat ggtgttctgt tttccattgg caacaatcat gggagctttt 240
cagccaatat agccaacat ttagccaacg atatcaatat ggcactctgat ggagagctga 300

tcttgataa acctagaatc aaagcattgt taatggcttc tgctgtggct gcttatgatg 360
 ataaagacat aaaactggat ataccgcag ttatattatc acatgcaatt cccctatttg 420
 ggatgatctc gtgtgcact 439

<210> 6317
 <211> 213
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-B9
 <400> 6317

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 acttgttctg agaagctccg gtttgtcaca gacaaatact caaccttgca ccgaatgcga 120
 tagattttga attacaccat gttgaaggcg ctccatcata gcataccatg tatggctaca 180
 tcccttcgag tattggetta actaactttt agc 213

<210> 6318
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-C1
 <400> 6318

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 gctgaaacct tctccggtag ggctcgatcc tgggtgagatt gagtccccgg caggggctga 120
 cgccagcacg acaggacctg cgcgaccggg tgaggaggcg taggagaaga aaatgggtgca 180
 gcacccactg tatttcgtca gcaacctctt gcagggggct aggtcgaggt actcaggtgt 240
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 gcacgaaatc acggtgggtca cccgcctccc attgcaacgg atactacaca acccagatgc 360
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<223>      Clone ID: LIB104-058-Q1-E1-C4

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<223>      Clone ID: LIB104-058-Q1-E1-C5

<400>      6323
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2824

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 tttaatatat ttaccgtaga acgattgttc tacggttttc ggttcaaaaa aaagggtgcaa 360
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 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-C8
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 aacctttgta tgaatacgac acagtgatgg gataatgctc ccccttttat gaacttctac 120
 tactttgtca acaacaagtt gaagtagaaa aagtaagtaa aaccggccgc acgagaggat 180
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 att 243

<210> 6325
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-C9
 <400> 6325

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 taaacttgga ataattatgg tgatcaaatg gctcaatgaa atgatgccaa attgtgtgga 180
 gagatgtttt atgggtataa gaatgatctg ggaatttatc atgatttttg aagcaatata 240
 aaatatactt gcttcataac ctaacaatat tgccagaatc aatgatttgc ccctgtgctc 300
 acatagataa ttgtatgagg ctgacaatgc gtggaatatg ttaatatgat cacattaacg 360
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<211> 413
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 <223> Clone ID: LIB104-058-Q1-E1-D1

 <400> 6326

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ccggccccgcc gccatacgcc cgtcaaaaaca ccgagacctc cccctagacg tacgcccaca 120
attgccatgc atgcatgatg ccagtaatat ggtatgcgaa ttaactaaag aagaagccac 180
atatatcatg gaggtacccg gatatataga tagtgctcga tccataactt atagctggat 240
ttcaacactt atatatctag atttacgccc ctcaaaaaat atatttagat ttatgttatt 300
acagtagaaa caatgtcatg tatgaccac ggtgattgta cttatactat tcatgcaata 360
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<210> 6327
 <211> 326
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-058-Q1-E1-D10

 <400> 6327

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tccatctatc gtcgctcgcc actgctgcaa tcttcctgca cctgacggat tccgcccggg 120
gaccagtget ccgccctgtt tacgctgcta actccccaaag acttccttcg attacccccg 180
ctcgcttcac tccttcgacc gatagtgtct ggtcaccttc ctccagataa acattaaatc 240
tcaatattca gatgtgtgtc atttgaaaat atatcaaaga tgtgcttagc ctaacatggt 300
tgcgctctag tagatacatg cataca 326
  
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<210> 6328
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 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 6328

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 atgaaagctc cgtctaagga aggctgactc aaggatccat gcccttgatt cttgctccga 180
 aagtggacct gaaaaaacta caagttcgac gattgcgcga ggaacacaat gggttttctc 240
 tgaatcatct ggtaattttc ccagtcttgt acatgttgtt ctttgaatca tgtgggtattt 300
 ctaagtgcac tgcattgtgt gtgggtggata caaaaagagg acgcgacgac tgatggctgt 360
 tctctttaca cttggcgtgg ttgacaggct atggagcang caattttgct atttggtaa 420
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<210> 6329
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D12
 <400> 6329

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 gtgaacccat cagtcggata aagcaccac tgggcaacgg tgatctgacg caccgccgca 120
 gttaagtttt catggcagcc acttaaaggt tctcatcacc tcccatcccg atcgacttac 180
 aggcgccgct gtaaagccat tatcatgac taggaaacca cttttcaagg gtgtcgcgat 240
 atccctatgt ttcaccgaca acgtcttgaa ttatcagctt ctaccggcaa tcagtcccat 300
 aggcgatttc ggcatattag gattacagca gctcctggga gtctgcatcg cctattataa 360
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<210> 6330
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D5
 <400> 6330

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gcagctgtga ctatgagttg gtggagatat tctgccatac taattcgtcc atacgagttc 180
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 acgaaggagg aggcaagctt cggggctggt tggagctcga tccttattcc gtgccggagg 360
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<210> 6331
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D6
 <400> 6331

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 atactacaag tcatcactgt cttcagccat cattctcagt cactgaacca atcaaatcaa 180
 tactatTTTT catcaatggt ttcttgaggg tggtagttgt tcattagtaa agaactaagc 240
 taaaattttg taaacatagt ctcaacataa tgtgtcaatg atttcccata ctaccattgg 300
 aaaaaataca ctcaatgtgg tccaatgcac agattgtctc accat 345

<210> 6332
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D7
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 aagctgtgac caatatgtac acggccgcat gttgcgttgc gtgggtgctg tcgccgttct 180
 tgtgtactcc attgttgtgc tgtgatcatt cctttgaata aatcggctcg atcttcaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaagaca caccaaagga tcaaaaaaaa aaataacaat aaaaacaaaa tcaaaaaaca 360

atcaaacaca aacacataaa ttcaaaaaaa caggcggtcg ctaaaaaaag gggggccccc 420
caaaaaatcc ccccttctc g 441

<210> 6333
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-D8

<400> 6333

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gatctgaaag gtttagcacta ataataacag gatatatctt cttttcatca agataagcat 180
atttcaaagt atcaggtaat tgtttaagct caaacactgg atcaccccttg ggtggaggag 240
tatccccaag gatttcaaca ggcaaattgt gtttcaaac aggcatttga ttaaagaata 300
tttcatctaa ttcttctctc tcattcataa acatatcatt ttcatgggtct agcaaatatt 360
gttctaaatg atcaatggga ggcacgacaa tagaagcaag atcaataatt tcatccttac 420
taggcaaatt ttttgtcatg gggttgt 447

<210> 6334
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E11

<400> 6334

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acgttatttt acttattccg tgggtcggaa gcaagagcta gaaaagctgc tgcaagacca 120
ggaagttatg aggacctctc tattgcaatg gtgctatgca agctacagtg aggtatttag 180
ctctggatg catttctctg ctgttcgtgt ctctgtagag agtattctga gatatgggtct 240
gcctgcacgg ttctgtctg ttgtcctagc accatctaca aagagtgaga agaaagtaag 300
gaacatcttg gaagggctat gcggcaatgc caacagcagc tactggagat ccgaagatga 360
cgtgggcatg gctgctggcc tgggaggcga gacagagtcc cacccttatg tctccttcac 420

cataaaacttt gtctgagcgt gtttgatgta tattatatttg tg 462

<210> 6335
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E4

<400> 6335

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tgaagtggct gaagcccgggt gggcatatatt tcatcaggga atcgtgcttc caccagtctg 120
gggattccaa gaggaaagtg aaccgcacgc actaccggga gccgaggttc tacaccaagg 180
tgtttaagga atgccactcc tatgaccaag aggggaattc ctttgagctt tctctggtaa 240
cttccaagtg cattggagct tatgtgaaaa gcaagaagaa ccagaaccag atatgttggc 300
tgtgggagaa ggtcaagtgc acagaagaca aaggctttca gagattcctg gacaatgtgc 360
agtacaaatc cactggaatc ttgcgttatg agcgcgtggt tggg 404

<210> 6336
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E5

<400> 6336

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aaggccaagg agcttggccc tgtgaagaag agcaggatgt gagctccgtt gctgagatac 120
atataggaat agtggaccgt ggacgctagc gccatcgtga ataaaggtta tgctctcggg 180
aaattcctta gtgaagactt gtctgtataa gaaattcaag cactcgatag ggcacgaata 240
cgaacaagag ggagatataa cacgaactct gcttatgtgc tccgctgtgt ttcgttggtc 300
agataaagac ctcatggctt acgctgtgta gcctcttcta aaa 343

<210> 6337
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E6

<400> 6337

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tttcccgggg ggcccaaata cgggcaaccg gtggccggca attttcgggc aagcaacttg 180
gattccgtct gcgcctccaa ctctgcccac aacaggcgaa gggctctgtg tgtgaaaatt 240
tacgatgata tgtcggtaaa tattaaattc aagagatctg aggtgatgaa aggtgagaag 300
atgttacaag ccaggtgctt gtggagaggg cggagaagag cggaaaaaaaa aagagatgtg 360
aacatctaga ggcctttgcc atgttgggtg cgctcgcaag gcaagccgcc accaataata 420
aaaagttttt ttttgcctcg ggggg 445

<210> 6338

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E7

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acgacgacct tgctatggtg gtggctgacg acgaccctgc tatggtggtg gctgacgacg 120
acctcgcgat tgtggtgcct gacgctgacc tcgctgtttg gtgcctaata atgacctcgc 180
gatggtagtg gcgccggcga ttccacagct gggcgacagg accatgccaa ttgtggtaga 240
ggagtacatc cgcgttgga tttgccactc tgagcgcac aggttgatga aggagaagaa 300
ggaggagtga agatgttaag aaaatgaagt ggtaatgtta agcatgttgg gttaaagctt 360
gtcaatgtta agtatgtcag ctttaatttt atgcatgctc atggatgctg tatgacagtg 420
tcacct 426

<210> 6339

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F1

<400> 6339

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 accgggacta aagggtgagc ctctggcccc gattcaagcc accaactggg accaatggtg 180
 gtggggccggg agcgaggccc attgggtccc gtttgtccca ccaaccggga ccaaaggggc 240
 cggacgaacc gggaccaatg cccccacgag gcccgcatg cgctggccg cacgaaccgg 300
 gaacaatgct cacattagtc cgggttcgtg actgaaccgg gactaatgtg aatattgccc 360
 tgtgaccaa gcccagtttt ctactagtga attctcatgg agaacgaaac atttgaccat 420
 ctagggcgtg cctccttcc 439

<210> 6340

<211> 470

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F11

<400> 6340

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 tagaacgctt caaaatttca taaaaaagat taagaaatga aaataggaag tccatattat 180
 aaagggtggag aagttcgatg attatagaaa attcagattt tccttggtat taaaaaatgg 240
 aaacaagaag ttcaaaaatg aaataataag aatttcaact tttaaaaaata gagcgcttca 300
 aaattcataa aagaggatta agaaattcag attaaaattc ataaaaaact cagatatctt 360
 catgtaacca agaaacgttc agattgataa ctaacagaag ttcacgtact acgcggtgtg 420
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<210> 6341

<211> 311

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F3

<400> 6341

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 tcttatgagg gctgggttct ccacccctct gcgttggaatc ctgctggagg ggggttgctt 180
 cggaactgtc cgggggtgta ttgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacg 240
 gccgctctaa aggatccaag cttacttacg cttgcatgca acttcatagc tcttcaaaag 300
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<210> 6342
 <211> 224
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-F5
 <400> 6342

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 cgtactaaaa ataatgccga aaagacggat tgaaacataa ccaatccaac cgggataagg 180
 ccaagggaat ccggggcccaa aatccccaag aaccaattag gcaa 224

<210> 6343
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 aaaagggggg ataacaatcg gtgggggaagg aaatgatggg atttctttcc tcccaccttt 180
 gccaacgccc caatggactt ggaggggaag aaaccagccc cctccagccc tatatatagt 240
 ggggaggcgc atgggagctt cacccttgcc cctggcgag cctccccct ctctaactcc 300
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gtcgtcgtgc tgccggagcc ctccctcaac ttctcctctc nccttgctgg atcaggaaag 420
angagatgtc ccaaggctgt acgtgtg 447

<210> 6344
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F7

<400> 6344

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gcatccttat gagtggcggt cggggacgag cgatggcttt ttctaccaa tctatcccc 180
taggagcatg cgcgtagtac ttggtttttg atgacttcta aatttttgca ataagtatat 240
gagttctttt gactaatgtt gagtccatgg attatacaca cttttacctt tccgcctttg 300
ctagcctctt cggtagcgtg cattgccctt tctcatcttg agagttgggtg caaacttcgc 360
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ccttaaaaca accaccatac ctaccta 447

<210> 6345
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F8

<400> 6345

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tcatgcacaa gcatccttgc atacaaagga ttttcctaga attttctaatt attgagcatt 180
cttctgttaa gcgtgccgt actatctttt tggctcatga gtttagattc ataataaaag 240
aggccaaaga aatatttgcg cattataggg tggacgcttg ccgtcctccc atagagtcta 300
tcctttttta tcaagaagaa ataatgcgtt ttcaatctct agactatgtt tctttcaatg 360
aaaatcttag aaaaagggtt cttccaatg ttttagttga tagaatttct gagcttaatg 420

atgatttggg caattcgaaa taatgaacta ggat

454

<210> 6346

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G10

<400> 6346

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ttgatggatt atggaacaag gagtggcaag agcctaagct tggggatgcc catggtaccc 120

caaggtaaaa ttcaaggaca ccaaaaagcc taagcttggg gatgccccgg aaggcatccc 180

ctctttcgtc ttcgtctatc ggtaacttta cttggaacta tatttttatt caccacatga 240

tatgtgtttt gcttgtagcg tattgtatga tttgagtctt tgatttttag tttaccacaa 300

tcatecttga tgtacacacc ttttgagaga gactcacata atttgaaatt tattagaata 360

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tatcttttag agcacggtgg tggtttt 447

<210> 6347

<211> 452

<212> DNA

<213> Triticum aestivum

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<400> 6347

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tgatgaacgc ttactgcgac cgtcagtctg tggatctcaa ctccactgct ttcctttttg 180

atggtcgtag gtcctgtggt gagcagaccc ctgatgagct tgagatggag gaaggcgacg 240

agatcgacgc catgcttcac cagaccggag ggtgctttcc tggcccttag aaggagcttg 300

ctgcagcctg gctgttctat gtcgtatgct acctttagaa ctagagtaaa atgtaggaag 360

tgaaagaact tgtgaggcta tggttctgtg ccatagcctg aggggggggtc tggaggtgaa 420

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<400> 6348

<400> 6349

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<212>	DNA
<213>	Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G6

<400> 6350

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atggagacat cataaatatt gatgtaaatg tgttccgaag tgtaagttca ctctcctagg 180
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tgcaaggctg ataggtttat tgagatgcct catatgcaag ctcataaacc actgttaaag 300
ttgtctgttg tggagatgac tgggttccat ggctaataa acacatttta cctgttatgt 360
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<210> 6351

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-H11

<400> 6351

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cgctgctcg gacacggcgc tgagcgggtg ccggtgcccg ccgggggttc aaggcgacgg 180
ccacaaatgc gaagacctgg acgagtgcaa ggataagctg gcgtgcacct gcccgactg 240
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ccgcggggag gacgtctgcg tggccaacag catgtccagg ttcggtggc tcgtcgccct 360
cctgcgcgtc tctgcgccg ccggcctagg ggtcgccggc ttcattctct acaagtacag 420
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<210> 6352

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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<400> 6352

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cgggtgctaa cgctattgga ctcaagtgtc ggtatgcaat tttctttcat acattgtggt 180
ttcttccccg tgcagacatc gtgtttcaat agtatcgggt attattaatt tatcgggaca 240
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ctgattgtta ctgatgttgt ccatttttag gctgtgggga gaagatgtga agaaattttc 360
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ntgcctgatt tgttcatttg attgcaaa 448

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<210>      6353
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<212>      DNA
<213>      Triticum aestivum

<223>      Clone ID: LIB104-058-Q1-E1-H6

<400>      6353

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tgaccaggat cgtatgtctg catggagttc cgaggaccat cgtatcagac agaggaacac 180
agtttacctc aaagttttgg aatcagctgc accagacttt ggtactagg ctagagttca 240
gtacagcctt tcatccgcag acagatggat agaccgaggg agtcaatcag atcctgaagg 300
acatgttgag agcgtgtgcg ctagattatg gatctagtag ggatgataat ctactttacg 360
cagagttctc atacaagaac agttaccaag ccagtttgaa gatgaccctt tttgagcctt 420
tgtatgggag aagga 435

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<210>      6354
<211>      450
<212>      DNA
<213>      Triticum aestivum

<223>      Clone ID: LIB104-058-Q1-E1-H7

<400>      6354

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gtgggaaatg gttccaaagt cgatgtgatg gtggtcggca cgctacctct acatctacct 240
tcgggattag ttttagacct aaataattgt tatttgggtgc cagcgttgag catgaacatt 300
atatctagat cttgtttgat gcaagacagt tattcattta aatcagagaa taatggttgt 360
tctacttata tgagtaatat attttatggg catgcaccct tgaagagtgg tctatttttg 420
ttgaatctcg atagtagtga tacacatatt 450

<210> 6355
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-H9
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agtttcacta gaacacgtat cttgcccttt tggctgttgt acacctacca gcacactcta 180
gtggctcttg tttacagcaa atgtgatgcg acttagggtc gtgaaagaga tactgccacg 240
tactaacaga ttacggcaat ccattttccc tcatgctgca tgttgcgcat caaccattgc 300
atgttgatat cctgatatat taatctcaat gacagaacaa aatgcttggt ggtgccctga 360
tacatcattc gcctgcaagg tgatgatgca ctcgaaaagc ccctttctag aaaagtataa 420
cggggctcaa tatgggacat tg 442

<210> 6356
<211> 300
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-059-Q1-E1-A9
<400> 6356

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gtacccttgc atgcaggcga tcgctcatgg gaatgccagc gctggcacat gcaacagcac 180
 cgatatgcac agaattgagt ttgccattct gttctaacca ggatcattgc ccacaaatct 240
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<210> 6357
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-059-Q1-E1-C4
 <400> 6357

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 tgttgttggt gttgttggtt ttgttggtgt tggtgttggt gttgttggtt ttactgttgc 180
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<210> 6358
 <211> 109
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-059-Q1-E1-D4
 <400> 6358

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<210> 6359
 <211> 491
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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<400> 6359

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atcttgccag atcttcaacg agttcaatgc gcgtaagcct gaggaagga ,atgtcttcaa 120

aggagtaaca aagaatcagc tcttcatggg aatagtttgt gtaactaccg tgtttcagat 180

actaatagtt gaattcctgg gaaagttctt taaaattgtg agacttaact ggagtctatg 240

gttagtttca gttgccattg gcgtcgtaag ctggcctttg gcttatctag ggaaattcat 300

tccagttcct gtaagacctc tccaggccta tttcaagcct tgttggaat catcacgccg 360

agacgaagac gaagcgaggc agggctaaaa aggctgcaga tcanctagtg taaatagaca 420

cgggtcagcc gaagaacagg aacccgttac gcctctccca gtggaacaga gctgccgatt 480

acctctacta c 491

<210> 6360

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-A8

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acatagtagg tgactataga cttgcaagat aggatcaaga actctcatat attcatgaaa 120

acataatagg ttcagatctg aaatcatggc actcggggccc tagtgacaag cattaagcat 180

agcaaagtca tagcaacatc aatctcagaa catagtggat actagggatc aaaccctaac 240

aaaactaact cgattacatg ataaatctca tccaacccat taccatccag caagcctaca 300

atggaattac tcacgcacga cagtgagcat catgaaattg gtgatggagg atggttgatg 360

atgacgatgg cgacagattc ccctctccga agccccgaac ggact 405

<210> 6361

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-B10

<400> 6361

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tccggtagga ttgcctctcg cttcttcgga aatgaaattc gtgcgcagat catcgccgat 180
gagatcagtg atccacactg gatgctgttc ttgtgtatgg attttatgga ggtttgggtt 240
tttttcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gacggggcta 360
cccaatagga tcaaagttaa ctttgccggg aagggaatgt cacaccct 409

<210> 6362
<211> 286
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-060-Q1-E1-B11
<400> 6362

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ttgtgtgtta tgaataacaa acagattaaa caaaccaga atgacagtgg caagattact 120
ttaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaagaagaa 180
acaaaacaaa aaaaaaaaag cggccgctct aaaggatcaa agcttacgta cccgtgcatg 240
caacgtcaaa gtcatcgat agtgtcacca aaattcaatt cacaga 286

<210> 6363
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-060-Q1-E1-B6
<400> 6363

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aggatcagac ggaggagact aacgatgaca ccacggagat taagccggag aacattaagg 120
acacgactac tgagaagacc actaccaaga ctaatctgct tatcaatgat gataacaata 180
ataatattca ctacgatgaa catgcacatc gaggaggata tttatgactg acgacatgac 240
gatggaggat attccgatga tctcccctct cctcctctc tcccctttcg cggccgctct 300

atacgtcca cccttactta cccgtccate cgacttcata cctcttctat attgtccccc 360
tccttcactt cactggccgt cctttttc 388

<210> 6364
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-B7

<400> 6364

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cgggtgggaga acgaatactc ctgtggctct ggctggctct gcacctcat gaacggcaca 180
ccatactcga tcgattcggt atcctctggg tgcttgacct togacctgta cgtccccac 240
ctccgcctga ctatcgctc ggggtgaatct gtctgctcca tcgcccatag gagatactcg 300
atgaactcgg aggactgcaa cgtgactgcc gccgaggagt acatgtacat caccgcctct 360
catcgccgcc atctcgtctt ttgcataca ttgccacatg gccgcgaccg 410

<210> 6365
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-C10

<400> 6365

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ttttgtgttt tgtctaattg cagggtgatg agacatttgt acaattcaca tatgaagata 120
aggaagaaag atatgtttat ttgctgtcca aaaagttctc tcatgtcact ttgggcccaa 180
gagaagatag agtccaagtc tctcacgttc tggattcaga ttccggactgc acagacacac 240
ctgactcaaa atgcacacaa gtttttcata cggactccga attgggtgat ttttttttg 300
ttggaaacta gatttcgtgc actttccaac ccaattggaa tcaccttcaa attcgtccgg 360
agcgttgagt tgtggacgaa acaatctgat gctgcagcaa aatccgag 408

<210> 6366

<211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-C12

 <400> 6366

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 atttgggggc ccatcaacgt ctacaagatt aacgttgtgt actacacatc aagcaatttc 180
 tggcaccatt gccggggaag ttagtgcttg aaggtatatc ttacatcgt gcactcgaat 240
 ctttgagttt cttgttttat caccagttaa gtcaataatt caactataaa atacggcact 300
 aagggtgcct cttatgcttc atcttttact atcgttcacg aagatcatga ttccaataat 360
 tgtgccaaag tgttatcaga agactgcatt aacatgtttg gaactaaatc tttgaatgat 420
 gag 423

<210> 6367
 <211> 117
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-C2

 <400> 6367

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 tctaggaatc catgccacct gatagctctt cgatacctcc cgtatgtcaa ttcaata 117

<210> 6368
 <211> 429
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-C6

 <400> 6368

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 atgtattccg aatatagtca tacgtgctta tgaaaaagaa cttgcatgac atgttttgtc 180

ctaccctccc gtggcagcgg ggtcctattg gaaactaagg gatattaagg cctcctttta 240
atagagtacc ggaccaaagc attaacactt agtgaatata tgaactcctc aaactacggt 300
catcaccgag agtgggtccc attattgtca attcgggggt gtcggatcat aacacataat 360
aggttaactat agacttgcaa gataggatca agaactcaca tatattcatg aaaacataat 420
aagtttaga 429

<210> 6369
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-060-Q1-E1-D1
<400> 6369

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aaagctgatc acgaagcggc tgtactcgga ggatgcggcg tggaagaact ggggtgtggca 120
ctctgagggg gacctgatgc tcaacaactc cgtcttcgcc gacagctgtg gcccacacca 180
gaggaagttc gataaggatg acctcatccc gcccaagccg ggatcgtacg tcaccaggct 240
cacgcgcttc gccggctgca tgccgtgcaa gccctgcaag ccctgctaaa ccttggtggc 300
cccgccggcc ggccggagcc gatcccttcc gaatcttcaa ttctatagct ttgttcaatt 360
cttttactca aagattcgtg tatgtattac tacgacatt 399

<210> 6370
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-060-Q1-E1-D10
<400> 6370

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tgatgctgat gacatatata tgcggtcata gattggcatc attattggcc ctcacattac 120
tgtccatgag ggtcgcactc accagctgaa gctgttctgt gacaaggact accctgagaa 180
ggcaccatct gttacattcc attcaaaaat caacatgggt tgtgttactc acgagactgg 240
ggcggttgac tcaattaagt tcagtttgct aacaaactgg caaccgtatt acactatgga 300

acatgtcttg acccagctga tgaacgatat tgcagcgacg cagaaccgca agctagtgc 360
gcctccagaa gggacattct tctagcgggg tgtttgccgg cccatct 407

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<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-D12

<400> 6371

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agtcccaaaa ataataaaa agtgataat aaagccatt aaacatcaa aacagaatat 180
ataatagcat ggaacaatca aaaattatag atacgttga gacgtatcaa tggtcaccat 240
cctctcctat ttctgtggtc aactgagtct tgatcttga gggttattta tggtggattg 300
aatatatttg atttgagatc acttgatgca tgtctaattt gtggatatcc gtggtgacat 360
tgaggtaatc taggtgacaa aagaattgaa cgatatgtat tatatggtat tgcgtagta 420
cgatt 425

<210> 6372
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-D6

<400> 6372

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ctggccgtca tgaggaaatt cttttgcac cacttttttt tgactttctc agcaatgccg 180
ttgttcacac tctggttgat attacagtgt gacctgtgtg ttaagaaggg atgtttgtcg 240
catctatagc ttccggaacc agctgctgta cattctttca tatgtcggtg accaatctgc 300
tcaccgcagt ttgccattta caaatcata 329

<210> 6373

<211> 400
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-E11

 <400> 6373

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 atgaatcctt tgagtagcca aagtccgacc ttgctcgaaa accatgtcaa tgctacctcg 180
 aagcatgttt gtggactctc gatgatcaat agttacattt gaagcataac gcaaaatgtt 240
 ctttactaat taccctaaac accgtttgta tgggtaatga catgatattt ctctcacctt 300
 tcctaaaggg ttttctacgt tataccttgt cgtagagata atgttctgct tgccttggg 360
 aaggatatac ccctgaaata tgtgtttaaa cacattttcc 400

<210> 6374
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-F8

 <400> 6374

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 gttacttccc aactcaggct ttgaactttg ctttcaagga ttacttcaag aggatgttca 120
 actttaagaa ggacaaggat ggttactgga agtggttcgg tggcaacctt gcttctggtg 180
 gtgccgctgg tgcttctcgt ctgttctttg tgtactccct tgactatgct aggacaaggc 240
 tggccaatga cgcaaaggca tccaagggtg gaggtgaaag gcaattcaat ggcttggttg 300
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 tctcctgtgt tggaatcatt gtctaccgtg gtctgtac 398

<210> 6375
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-G11

<400> 6375

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tattttcttct acagagtgtg tgtataatct cacaaacgga ctgtacaaac agctttctcag 120

cacgaaccac accagtaagc acacaagtc c aactgatcat atttatataa aaacactata 180

atcggctgaa aatgacacca tgcattgcacg aatcctgggt tttattttat cacttattaa 240

aaacatgtag tactcctagt aacctatgat ttggaccagt ctatggatct caggaggaat 300

ttaattgggt aacaacagaa cataggacca aagaccacca gaaaataatg caaagcgaca 360

ttaacgacag agacagtagt gcatgcccta atagtatttt tttttgcatg caaatcagct 420

gggcccc 427

<210> 6376

<211> 393

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-061-Q1-E1-A12

<400> 6376

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aacccgacgc actaccgga gccaaaggtt tacaccaagg tgtttaagga atgccactcc 180

tatgaccaag atgggaattc ctttgagctt tctctggtta cttccaagtg cattggagct 240

tatgtgaaga gcanaaaaac cagaaccaga tatgttggct atgggagaag gtcaagtgca 300

cagaagacaa aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatcc 360

tgcgttatga gcgcgtgttt ggggaaggtt atg 393

<210> 6377

<211> 221

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-061-Q1-E1-E5

<400> 6377

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa ggggcccgc aaaggatcc aagcttactt acccgtgcat 180
 gcaacgtcaa agctcttcaa aattgtcacc aaaattcaat t 221

<210> 6378
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-061-Q1-E1-F1
 <400> 6378

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 ccagctctta gggctgcatt ccaggagaca accatctcgc ccgctaattt ggtgctccca 180
 ttgttcatcc atgaagggga agaggatgct ccaattggcg ctatgcccggt gtgctttagg 240
 cttggatggc aacatgggct tcttgatgag gtgtataagg cacgtgatgt tgggtgtaac 300
 agctttgtgc tctttccaaa agttccggat gcattgaagt ctccaacagg agttgaagca 360
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<210> 6379
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-061-Q1-E1-H1
 <400> 6379

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 tcgttgctta gatgaactca tagatggatc ttggtgaaac cgtagaattt tttttaattt 180
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 ttgtgtgacc atgatagcta tttccctagc aagctatata tatatatatt ctccactagt 300

tccattcagt atgtggacat gaattgaatc aatgatgcac cctcctgacc actgaagcta 360
agaataggag cagaagttag agcgagaaag a 391

<210> 6380
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-061-Q1-E1-H2

<400> 6380

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gcgggcaaaa tctttttatt gacagggttt ttgatttggt tgatgaaaag aagaatggag 120
taatagagtt tgatgagttt attcatgctc tcagtgtctt ccatccatgt tcacctgtgg 180
aggataagat taattttgca tttaagctgt atgatttgag gcaaaccgga tttattgagc 240
gtgaagaggt tatgcaaag gttattgcca ttttgaatga atctgatatg aaattgtctg 300
acgagcttct tgaggccatc atagataagg gacatcacia catcttttcc tagttttgtc 360
ttcaacacgg cagttgaaga ctaaatagtg caagaattct aaaatgacgg caacaagttg 420
gaagcatatt atgtctgtca gct 443

<210> 6381
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-061-Q1-E1-H7

<400> 6381

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gttcggagaa gatgcttttg tgaacatcag cattgagaag caagtcgatg gcaagcttag 120
tggttacatc agaataagga gtaagacaca aggaatcgcg ctgagcttgg gagataagat 180
taccctcaag cagaagggag gcagtttaatt ctgatgttgc ctgctcacia acaccggatt 240
gtatgacatg tttccttcaa gagatccact tgccagtgtc atactacagg cacaatggga 300
ttgattgaat taactacagg aagtttttgt gtacagaata tcaaagagaa gaatgataaa 360
agaagaggat cgtaggggaag tcagtcttgg gagctgaaaa acgatcttga cacttccttt 420

cgcgataggt gtttattga

439

<210> 6382

<211> 138

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-A12

<400> 6382

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ctcttgcggt gattgacttg cattcctgag tctgtgtgct ctgtggtcgg gctagggaga 120

taccggcggt tcccgtc 138

<210> 6383

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-A7

<400> 6383

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tcctcatgtc tgcataata cctccccatt tttactcaag cagaagcatc ggcttctact 120

agttggaaca gtctaccgca catttaaata tgtgggcaat gaagaaaaag gggaaatatt 180

tctgagagac agtagatgat catcaaaaga atgtgaaatg tataagagaa ttagaggcac 240

cggaagaac tgcacgttg ctatgtagac catgcatcaa gctcaatttt atcattcaca 300

atggactccc ttacctgcc actagtgtca ttctttttt tcggaaaaac ttccaatcta 360

ttcatcttca atcatggcag tacaacgaat gccagaaata aaaattaca 409

<210> 6384

<211> 428

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-062-Q1-E1-B10

<400> 6384

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ttgagatgaa ccaattgaca gattgcgatc agattgagtt atcacccttc tactgtcatt 120
gttgggtggg gggaagggg agggagagaa aggcgtatcg agagtgtgcg cagtaggcat 180
agaggcacaa ctacgcactg tgtgtgtatg tgtgtgtgtg tttgaaagag gagtagatag 240
attactatca agatcgaggt gccaccctac tccttcggtg tcaggtaatg tgtgtgtgtt 300
tgagagagaa gccatgtcga tagattagta tcaagatcga ggtgtcgccc tactccttcg 360
gtgttgggaa gtgtgtgtgt gtggttgtgt gtgtcggggg gaagggggca gtgacactta 420
catatctc 428

<210> 6385
<211> 291
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-062-Q1-E1-B11
<400> 6385

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ctctatagat ccatcagctc taagtaaact gcgtataaat catgtatgta taaggatatgt 120
gttactgatg ttagaagttg attcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 180
acaaaagaat ataaaaaaaa aataaacgtg taaacaaaag aatatatctt tacaatcgtg 240
tctaaaagtc acatcacagt gcgtctcttt aaaaaacatt gagtgtgaaa a 291

<210> 6386
<211> 343
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-062-Q1-E1-B3
<400> 6386

tgcttcaatt tcagtttggg tcagagtcag gtcctggatg ttgtcaagtt tgtttactta 60
tgggcacttg tgtattggtt tattgctggg cattatgcct tgatattaaa gatttccgcc 120
cagtacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaggc aaaaaacaa aacaaaaaaa aaaaaaaaaa gcggcgggccc 240
aaaaggatcc aagcttactt acccttgcag gcaacttaaa agctcttcaa aagtggtcccc 300

aaaatcaaat tcaagggccg tcttttaaaa acttcttaac tgg

343

<210> 6387

<211> 466

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-062-Q1-E1-B4

<400> 6387

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gagttcatta cagtacctta tgtggtggtt ttgctttctt tcactaatgg agcttatgag 120

atttcctggt gagttttctg ttgtgaagtt ttcaagtttt gggtaaagat ttgatgcact 180

atggaataag gagtggcaag agcctaagct tggggattcc catggcacc gaagatattc 240

aagagtacac aaaagcctaa gcttggagat gccccggaa ggcattccct ctttcgtctt 300

cgttcattgg taactttact tggagctata tttttattcg ccacatgata tgtgttttgc 360

ttggagcgtc gtgtatgata ttagtatttg atgtttagtt ttccacaatc gtactttctg 420

tacacacctt ttgggagaag acatttgatt gaaatttatt agaata 466

<210> 6388

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-B6

<400> 6388

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aaacaacccg gaagtttttag agagtcattt atttctgttg tctgctttta tatagtttaa 120

aaacaaaaaa ataaggaggg gaacccaaaa ctttttcaaa aagaaaagtg aaagtgagat 180

agacgagcat tgtgaaagtg ggggacgtcc ttgaactttg ttcattgcca tggaaacttt 240

gtgaatctta attacagaaa cttttcaaaa aaaataatta tccccttgta caattccatt 300

gtattataaa aataatgtgc caagggttgc ctttaggatg ttacaatgc ttgttggtt 360

gtgccggtgt a 371

<210> 6389
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-062-Q1-E1-B7

 <400> 6389

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 tgccggatga tgcggcggca aaggtctgag ccaagcaagc agtgatcggc gatgggacag 120
 aaaagattgt gtcaggacat actactgggt ccagactgtg ttggaatgca acgcatgcac 180
 cgtgaactgg cggcaggcca ggacgataag atgggcagtg cgccattgct gtacccactt 240
 tctgcctgat ggtttccttt caagtagcta gtaccagacg tctcccggtg atgttgtatg 300
 taccgaatta ataaaacaag tttcagatgc ttttagtgag ctctatgtg ggtggcttca 360
 gcacgcacca naggacaatt ttacatttaa ataaaaaaaa gcggccgctc tacaggatcc 420
 aagctta 427

<210> 6390
 <211> 340
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-062-Q1-E1-B8

 <400> 6390

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 acgaccaacg ttcgcaaggt cgacgtaacg gacgaacccg tgcaaacgac ctgaaccgga 120
 atgcccgatc gatttcgccc aggacgacga cctcgccgtc gacgacttca aggaggcgga 180
 cgatcaacac gatccacgct tacctacgca tccacagcga catgatacct ctgcaaagtt 240
 gccaccgtgg atcaactcat cggccgctgt cttcacgtgt cggcacagag aatcccccg 300
 cgtgtgcca cttactcccc tatcatcaca tctcctggc 340

<210> 6391
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-B9

<400> 6391

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tgatctattg atttggtttg gccacctaga ttgatttttc ttagaatgag agaggtgcct 180
tgtttttaggt tcaatcttgc ggtgtcctca cccaatgaca gaagggtagc gaggcattgca 240
tttgatttgg tgccattaag gataaaaaga tgggtttttt gcaatattga ttggatctat 300
ctccctacat catgtcatct tggttaaggc gttactccgt tcttggttaac ttaatacact 360
agatgcatgc tggatagcgg tcgatgtgtg gagtaatagt agtagatgc 409

<210> 6392

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-C10

<400> 6392

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tcttttagag catggtggtg gatttgtttt atagaaacta ttgatctctc atgcttcact 120
tatattattt tgagagtctt aaatagcatg gtaattttct tagaatccta atatgcttgg 180
tatgcaagat taataataaa aatcctctta tgagtgtggt caatactatg ataagtttga 240
tacttgataa ttgttttgag acatggagat ggtgatatta aagtcattgc agttgagtag 300
ttgtaatttg agaaataact gtgttggaagc ttgtgattcc cgtagcatgc acgtatggtg 360
aaccgttatg tgatgaagtc ggagcatgat ttattttattg attgtcttcc ttatgaatgg 420
cggtcgggga cgagcgatgg tcttttccta caaatctatc ccc 463

<210> 6393

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-D12

<400> 6393

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 aattttgaaa agagttcatc gattccgaaa agagttcatc gattttgaga aacaaagttc 180
 atcaattttg aaaaagagtt catcgatttg aaaaatagtt cattgatttt gaaaaaagtt 240
 cgtcgatttt taaaaaagtt catcgatttt gaaaaaaagt tcgtcgattt ggagaaaaaa 300
 atattttctt tgtaaaagag ttcatcaatt ttgaaaaaat agttcacgaa ttttaaaag 360
 ttcattggat tttgataaaa aaaaattcag caaattgaaa gagttcacgt atttaac 417

<210> 6394
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-062-Q1-E1-D6
 <400> 6394

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 taatgagtta gttgcaagat gatgtattac ggaatgagta aagagacttg tcagtaatga 120
 gattgaacta ggtatgaaga tactgtgaca ccctcgattc aatcatacac taaccataca 180
 cgcaaagtgt tacgatcaag atcaaggact cacgggaaga tatcacaaca caactctaga 240
 cacaaaataa aataatacaa gctttatatt acaatccagg ggcctcgagg gctcgaatac 300
 ataagctcga atacacaaga gtcagcggaa gcaacaatat ctgagtacag acatgagtta 360
 gacaagtttg ccttaagaag gctagcacia aagcaacaac gatcgaaaag gcaaggcctc 420
 ctgcctggga gcctcctaac tactcctggt 450

<210> 6395
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-062-Q1-E1-D7
 <400> 6395

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ctggcatgct tggctcaata gattgcatgc attggagttg gaagaattgt ccaaaggcat 180
ggcatgggca attccacggc caaaaagagg gttccactat aatccttgaa gcggtggccg 240
attaggagac ttggatttgg catgcattct ttggaatgcc tggatctttg actgacatta 300
atgttgtcaa ccggtcacca ctgatgaata agattgcaaa cggtgagttt ccaccgggtgc 360
agttttagc aaatggtcgt acgtacaact atggctatta tctagcggat ggcatctatc 420
caaaatggca aacct 435

<210> 6396
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-D8

<400> 6396

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atagaatata tttttgtagg ctaaactagc attcaacaac gttttacttt ttgctacgga 120
ggtaatatcc gattatcagc tcaactcgtca gcgcgcaacg attttgatca tccccctct 180
tgcaacttgc taccgcatag tatatataga gatactgtac aagacaatat cacaaccgcc 240
tttcatggtg tgagtaaacy ctttctcttc tcttttatca aaacattgga cattcactca 300
tgtccatttg tgtccccctc tccccctctt tgtttttctg tttttttggt ggagagagtt 360
tccgcctat tgtgtttaga gcaacgttct tacatctgca acctccaaag cgtttttgtt 420
ttggaggatg ctctattctc tttgttt 447

<210> 6397
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-E12

<400> 6397

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ttgtgggcaa tttggaactg cagaaatgat ttggctttta acacaacagc aactattcat 120
tttttcagg ttttattccg agctactgcg ctgatccgta tgtggtcggt actcactccg 180

gcggaggcca gggagcggtt ggttaccgga tctgtccggt gggagatggt agctcgggat 240
atcttcaact ggtttgatgg cggatcatgta ataggatatg tgattaatctt acctatcttt 300
cttttgccag ccggtggtgg cttatgggccc tttagtt 337

<210> 6398
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-062-Q1-E1-F11
<400> 6398

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tgaagtggct gaagcccggt gggcatatct tcatcagga atcgtgcttc caccagtctg 120
gggattccaa gaggaagtg aacccgacgc gctaccggga gccgagggtc tacaccaagg 180
tgtttaagga atgccactcc tatgaccaag aggggaattc ctttgagctt tctctggtaa 240
cttccaagtg cattggagct tatgtgaaaa gcaagaagaa ccagaaccag atatgttggc 300
tgtgggagaa ggtcaagtgc acagaagaca aaggctttca gagattcctg gacaatgtgc 360
agtacaaatc cactggaatc ttgcgttatg agcgcgtggt tggggagggt tatgttagca 420
ccggtggatt cgagaccaca aaggaatttg tggac 455

<210> 6399
<211> 458
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-062-Q1-E1-F6
<400> 6399

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tagaaagaat taaactctct tgcttcactt atatctatct agagagatga caggaattgg 120
tcattcacgt ggttagtcat aaaatcctac ataaacttat agatcgctga atatgatatg 180
tttgattcct tgcaatagtt ttgcgatata aaggtggtta tattagagtc atgctagtgg 240
gtggttggtg attgtagaga cacttggtgt gaggtttgca agttccgtag catgcacgta 300
tggtaacctg tgtgtgacaa atttgaagca tggggtgttt ctttgattgt cttccttatg 360

agtggcggtc ggggacaagc gatggtcttt tcctaccaat ctatccccct aggggcatgc 420
gtagtattac tttgttttga gggctaataa gcttttgc 458

<210> 6400
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-F7

<400> 6400

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ggaggaaatg agagccatga tcgaagttat agctgagacg gggaagttct ggcacgactg 120
gagttttctc aagagattgt tgtctctcca attgatgcag gtcttgggtg aatattctga 180
ggctcaaatg gtgatccgag aggacgggca gcaacagaat tccttgttta gagagacaca 240
ctcagagctg tttagccagc tcaatgatgc tctcttgagg tttgaagagg gtcctccggt 300
tacacttcaa aggccttgtg agattttgtt ggattcaaaa ggaacataca caaaattgtc 360
gaagcttgct ttggccttgg agaag 385

<210> 6401
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-F8

<400> 6401

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tccccttcca ttggcttcac caacaagatc tatcacccca atgtcgatga gatgtccggt 180
tctgtctgct tggatgtgat caaccagacc tggagcccaa tgttcgacct tgtggatata 240
tttgaggtgt tcctgcccc a gtttctctg taccggaacc cctcggaccc cttgaacggc 300
gaggcggcat cgctgatgat gcgcgacaag aatgcctatg aaaataaagt caaagaatat 360
tgtgagagat atgccaagcc tgaagacata tcccc 395

<210> 6402
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-G9

<400> 6402

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gtcttgccac ttgcagcaca gctgacatcg acgatgatcc atttagagcc tcatattcgt  120
atgatgctga agaagacatt ggggatgaag agtctggtgc cttcacttct tgtggttgaa  180
cacggtggtt tagagctcct gaactcctat atgggtcaac cagctacggc caagagatcg  240
acctgtggtc actaggatgc attttggctg agcttcttag ttttagagccc atattcccag  300
gccaatctga tattgaccag attggtagaa tcatcggagt cctgggcaat atcacagaag  360
agtcctttcc tggtgttca aatttaccg attacaacaa gatctttttc agcaagggtg  420
agaagcctac gggcctcgaa gcataccttc ctaaca                                456
  
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<210> 6403
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-H11

<400> 6403

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ttttcatgtg ttgtttgctt attctgatgc atttatggct agtatgtagg gtatgaacca  180
tagagaagtt ggaatacagt aggtttaaca ccaatataaa taaataatga gttcattaca  240
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gttttgtgtt gtaaagtgtt caagttttgg gtaaagattt gatggactat ggaataagga  360
gtggcaagag cctaaattgg ggatgcccaa tggcacccaa gatata                                405
  
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<210> 6404
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-H7

<400> 6404

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caaatcgggtg ggggtgttga cgctcttctg gtcactgatg acctgttgat gaggagggca 180
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attgggagcg gagtaagaag ctcatgttgc ctttatgcat gtaataatca tgctgcctg 360
catggcccg ctagctgttg tccaatgcct ggctgcctgc ctgaactggc gtcaatttcc 420
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<210> 6405

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-H9

<400> 6405

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caaattgtaa ctgcaagtgt gaattacctc tgctctgttt ctgtgtgttg tactcctcca 120
aagatcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaaacaaaa aaaaaagtaa 240
aaaaaaatca aataaaaaaga aagaagaaaa aaaaatataa gattgaaaaa aaaaaaaaaa 300
caacgaaaaa aaaaacaaaa tgcaacaaaa aaaaaattta gaaatcaaaa agtaatatta 360
agaaa 365

<210> 6406

<211> 387

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-063-Q1-E1-A1

<400> 6406

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accactagc atgaatatga gttgtttgac cctgatgtg cctacgcaat catgcgtgta 180
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aagtggtaaa catgtcctac tgggattgag ctactgtgt aaacactagt tggtagatgt 300
atccatgaga cgccatgtac gactacatgg aggggtgttt cattagcatc atccttaagc 360
actaagatct gtatgtatgc tttaaga 387

<210> 6407

<211> 461

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-A10

<400> 6407

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cgccgaatac aagtcggact acgtgtacca gcccttcccc aagcccggtg gggagcagat 120
cttcggctgg ctacgaagc ccgggtgggg gatgatgatc atggacccat acggcgccac 180
catcagcgcc acccccgaag cggcgacgcc gttccctcac cgccagggcg ttctcttcaa 240
catccagtac gtcaactact ggttcgccga ggcagccgcc gccgcgccgc tgcagtggag 300
caaggacatg tacaatttca tggagccgta cgtgagcaag aaccacaggc aggcgtacgc 360
caaccacagg gacattgacc tcggcaggaa cgaggtggtg aacgacatct caacctatag 420
cagcggcaag gtttggggcg agaagtactt caagggaac t 461

<210> 6408

<211> 461

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-A6

<400> 6408

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aaatgtcacg gagattgttg ctccgacaac ttctcgggcg aggaatgcaa cgcaaagagc 120
 caaatcgggtg ggggtgttga cgctcttcgt gtcactgatg acctgttgat gaggagggca 180
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 cagccgggtg gatttgctct tacattgata tcgcatgcgt atgaataatg gtccaatgga 300
 attgggagcg gagtaagaag ctcatgttgc ctttatgcat gtaataatca tgccctgcctg 360
 catggcccgct tagctgttgg tccaatgcct ggctgcctgc ctgaactggc gtcaatttcc 420
 agtttggttt tgtaatatat aataactctt ctgtattgtg c 461

<210> 6409

<211> 460

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-B10

<400> 6409

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 gaagtggctg aagcccgggtg ggcatatatt catcagggaa tcgtgcttcc accagtctgg 120
 ggattccaag aggaaagtga acccgacgca ctaccgggag ccgaggttct gcaccaaggt 180
 gtttaaggaa tgccactcct atgaccaata ggggaattcc tttgagcttt ctctggtaac 240
 ttccaagtgc attggagctt atgtgaaaag caagaagaac cagaaccaga tatgttggct 300
 gtgggagaag gtcaagtgca cagaagacaa atgctttcag atgttctctg acaatgtgca 360
 gtacaaatcc actggaatct tgcgttatga gcgcgtgttt ggggaggggt atgttagcac 420
 cgggtggattc gagaccacaa atgagtttgt ggacaagctg 460

<210> 6410

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-B11

<400> 6410

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cctacacggc agagaaacag aggatcttga ggggcctcat caagggcagc ttctttgcgc 180
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 ttctccagta cagcatagca ggattgttca tgttcatgag ggtgatgtgc aggactggtg 300
 atgtggtgca cttctgcact gtgaagcgcc agtgcgcgag tgtgttcaac aggtgtaaaa 360
 tatgggacta tcatcggatt tctggatgta atttaatttt acataaataa acctggtttg 420
 ctacttaaaa aagaaaa 437

<210> 6411
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-B12

<400> 6411
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 acaacgggta cgcattattg tctaacacgg ggaagagggc catgtacgat tcctggctcg 120
 ctgcttgctt atacgactac aaccaggatt tctcgaacct catgcatgag atgctgtcga 180
 tgatatatac cgtgacgaac gattcgtcgg acacgcttca ggacctggaa acaatgctgc 240
 atgagataat caaaggcaag gggcgtagct gatccactgc ttctgctagt tctaccgcaa 300
 ggagtcgtag aagttgcagt ggtccagtga atcgaaatgt accagtattt gtcatgtcgc 360
 accgtatccg gaaccgtca 379

<210> 6412
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-B2

<400> 6412
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 cgcaaaatgg agttgacttt catggcgctg cactcggcta tacaggccaa tgtgtatgtc 120
 aaccttgatt tcatatcttc caatgccact aggacgggca ccatctacta tgtttatggg 180
 gaaatcacgg cacaccatca actctataac ggtcagagtg ttttgctctt ttctcgcgga 240

caagtttgca caatgtttca gtacctctaa ttgctgggaa tgccaggaat tttgtgattg 420
atcacagcag ttcacatctgtc gcgtttttctg atgccagtta tgtctcagat tcct 474

<210> 6415
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-B8

<400> 6415

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gatctatgga gtgctccaca gcaggtcgca attttaggat ctcttcatga ggagaggtac 180
cttcacaac atcttgaag gcactctcac cgctttcaag accggcagga ctattgcaaa 240
tgataatgct attgatttct cgagcccatt tgctgacgct attgagcaat tttttggatg 300
ccacatgaca atcaaaccaa 320

<210> 6416
<211> 443
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-063-Q1-E1-B9

<400> 6416

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cttggggatg cccatggcac cccaagatat tcaaggatag ccaaaagcct aagcttgggg 180
atgccccagg aaggcatccc ctcttttgtc ttcgttcaat ggtaacttta catgcagcta 240
tatttttatt caccacatga tatgtgttat gcttggagcg tcgtgtatta tattattctt 300
tgctttttat tttaccacaa tcctccttgc tgtacacaac ttttgggaga agcctaattg 360
attaatgttt gctagaacac tctatgtgct tcatatatat cttttgagct tgatactttt 420
tgctcganta cttcacttat atc 443

<210> 6417
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-063-Q1-E1-C1

<400> 6417

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 cctttcttac cacttctttc attttagggt tcagccatcg tcgatgatca caaactagtt 120
 tagcatcttc ttccaaatta attttatggt gacataaagt gggactaatg cccttaagat 180
 catcaagagt atacccaata acaacacggt gcttcttcac agttttcaat aatctctctt 240
 cctcatgctc taaaagggtta gcactaataa taacatggta tatctttttc tcatcaaaat 300
 aagcatatct aagagtatca ggcaacggtt taagctcaaa cacgggatca cccttgggtg 360
 gangaggatc ccctaagggt tcaacaggca aattgtgttt cagaataggt tcctgtttta 420
 agaatac 427

<210> 6418
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C10

<400> 6418

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 ctgttcttgt agatttatac atattgttgt atagaaagaa agcaagactc ggaaacgtga 180
 actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa ataaaagaag aagaaaacaa taaagaaaca tcaaaagcac 300
 ttcgaataat gtcaacgaaa ttcgaattaa ttgaccgtca tttaaaagat tagctaattg 360
 gaaaacgctg ccgttacgcg aaacaacgag cggtgcaaca aagcctcctt ttacaagaag 420

<210> 6419
 <211> 447
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C11

<400> 6419

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gctaagtcct tgagggtggt gcggttgccg ttgcattgga cgacgacgtc aggggtaccgg 120
ctccggcgtg atggaggagg gcggcgggtg attgggcgcg acggcgatgg agacaccgac 180
gaggacgacg agctgccgtc gttcgacacc cacatgacca tcctcggcca ctgagaggag 240
ccaagcctga cttctagcgc atggtttagt tatcttcttg catttgcggt gcttgtgtag 300
ttgtgttgct gccagaaga aacagtctgg caaacataa aagaagaaga agaagaaaac 360
agaatcagga aagagatgag agagcgagcg tgtcacgatg atccccgcta gctgatgacg 420
aaatttgccg gttgctcttg tttcttg 447

<210> 6420

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C12

<400> 6420

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ggacgcgat cgaagtaact agatcttgca cctatcctgc catgcggtct cggcatccac 120
gattttatat gtgtgtcccc agtgaatttg cgtcaatagg ggaatatctt gctgtctgca 180
cttcaggaca gatcttgcta acgcccgcta catcgatgac attttcaaag gtcgactatt 240
gctggctgag ccattcaagg tccgacttcg ggagtcggac atggcaataa tgttcctcat 300
gctacacaca tccacgctag acg 323

<210> 6421

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C3

<400> 6421


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tagcccaacg gattgactgg aaagaacact actaggaaaa gggctataga tggaattgac 120
actaatggcg caccagacat gtgggtgcacc attactatat actaatggcg caccatgtgt 180
tgggtgctcca ttagtgtgca aataactaat ggcgcaccacg tccacgggtgc gccattagta 240
atTTTTTTTT atTTTTTcaa aattactaat ggcgccacgt ggacgtgggtg cgccattagt 300
atTtgcacac taatggagca ccaacacatg gtgcgccatt agtatatagt aatgggtgcac 360
cacatgtctg gtgcgccatt agtgtcaatt ccatctatag cccTTTTcct agtagtgttc 420
tttccagtca atccgttggg ctattc 446

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<210> 6422
<211> 466
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-063-Q1-E1-C4

<400> 6422

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gccggttatc cgagatgctg atacaatgaa ctttgctgac atcgagaaag ggataaacia 120
ccttgcaaag aaggctactg agggggcgct gtcaattgac gagatggcgg gaggaacatt 180
caccatctcc aacggtggtg tctacggaag ccttattagc acgcccata tcaaccccc 240
acagtcagcg attcttggga tgcactccat cgtgcaacgc cccgtgggtcg tggacggcag 300
catcctcgcc aggcccatga tgtacctcgc gctgacatac caacacaggc tgatcgacgg 360
cagagaagcc gtctacttcc tgcgccgcat caaggacgtc gtcgaggacc cccggaggct 420
gctccttgac atataagccc catgcgcccg atctcctttg ctgcca 466

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<210> 6423
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C6

<400> 6423

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gaaagtttac cgctgttgca ataattccct agaaaagtca gaatgtgata aaatgtcgaa 120
accttttgta tattaagatc tgataaattt actacagtgg gaattttatt tcataatttt 180
tggagctagg gaagtatgga tgttgacgta ttctttacag actatcctgt ttaggcagat 240
tgctgttatg ttgcatgtgt ttgcatatgt ttgcttcttt aatgattcga ttgaggata 300
ggactattaa atatgcagag gcatttagta tgcaatgttg aataacaatt ttagtgattt 360
gctacagtag agtatgataa ggtttttgca atagtttata ctaacttata tcacgtgtcc 420
tggttgagtt ttgtgtggat gaagct 446

<210> 6424
<211> 89
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C7

<400> 6424
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ggaggtccgg atccccaggt tcaacaaag 89

<210> 6425
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-D12

<400> 6425
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tctacgatgg ctggatgag cagctgctcg agcgcgcgat gatggaggcg agcgtccgct 120
cggcgggagc cgctgagggc ggcgaggatg ccgggggtgga cgtgaaggcg gacgagttca 180
tcgcaaagtt ctacgcgcag atgaagctgc aacggcaaat ctctgtggctg caatacaacg 240
agatgatgga aaggagcgtc tgctagaaca acagtgtcgt ttgctcaatc ttgagttttg 300
attcatcgat gtcaattgca agttagatac acataatgca taaaccgtag ttgtcacatg 360
tatatatgtg catatatattc tattgatttc tcaatttctg aactttgtat gcaaagttg 419

<210> 6426
 <211> 337
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D2

 <400> 6426

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ggatgcatga tcatagactt gacatcgat ttgtcgaga gccatcggtt catagtcac   120
atacatgtca cgaatgcatc attgcacatc ccggtacagc gcgggacgca ttcacatagc   180
agcacatgtt gttctaacta gtgcagttgt attottgagt tgtaaataaa tttaaagtgtg   240
gatgtcatca atgatacagc attgtctcac gtgaagacag aatgatgaat actatgattt   300
ccccacaagt ctggattcaa ctcccgttga tttacaa                               337
  
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<210> 6427
 <211> 361
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D3

 <400> 6427

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ggcttactag ggacacattg tgggtctatgt attcacacat gtattacgat ttccggataa   120
cacaattata gcatgaacaa tagacaatta tcatgaacaa agaaatataa taataaccat   180
ttattattgc ctctagggca tatttccaac atcttcatcc cgcgccttcc acagattgat   240
aaactttagg tcatccactt aagggaaatt tgttactgtg ctacaaaacg aggetcaaca   300
cgagtctaaa aaataagttg tatagtagac atcaagttct cttttggcgt cgtaaccggg   360
g                                                                           361
  
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<210> 6428
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D4

 <400> 6428

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 gcgttagccg atataacgga acgtaaggca gcaaaacaca ggaaccgggc aaaccaaca 180
 tttagcaaaa gacatgattt ggagctgatg catataaggc caaactcgcg acgccgaaca 240
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 ccctgggtgc caggtacgcg caaaattctg gcgtggccac atgccaaaac gccagcctcc 360
 tcctcggtta tgggaaaaac cgggggatgt tgtcaacaag agacagtaaa aaaggtttat 420
 gcacggtctt aatctaaaa 439

<210> 6429
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-D5
 <400> 6429

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 ttttttagt atattcagac atgtttttcc tctcttattc ttcatttttt aacttcttca 180
 taattgatta gataactttt aaggcaacat gttgtgtgtc gaaaagctta gggactcttg 240
 tgtgtacgtg aaacactttg atcaatagac tctttagttt agaaaatgat gaaaaaatat 300
 ttaaaaaaat tcttcagcg aaaatagga gaatataatt ttcattgggc 349

<210> 6430
 <211> 98
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-D6
 <400> 6430

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 ttgcggctga aaggaggcag gacattcagg ttcaaagt 98

<210> 6431
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-D7

<400> 6431

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cttttcgtct acaagtttaa ttcactactg agtcactcag caatgtagga cccacttgca 180
tgacaaacag agaaagaaaa caatcagttt aggagggaca tgaatcttag atctactcga 240
ttctagaaac gatggcaccg caacattaga agcagcaa at ggaccaacac aatcgactac 300
accgtgagga gattagcaac accaatgctg gatctgtgat gcatcgagga aagatgggca 360
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ctactgg 427

<210> 6432
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-D8

<400> 6432

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cgccaccgga agcaaagagg agagagcccc cttcttcttc gtcttccctg acctctccc 180
tagatgggag aaaggtttcc cctatgattc ttggctccca atggttggga agggcgagag 240
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tgattctgcc cttcaacg 318

<210> 6433
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-D9

<400> 6433

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 tacacacctt ttgagagaga ctcacatgat ttgaaattta ttagaatact ctatgtgctt 180
 cacttatatc ttttgagcta tatagttttt gctctaagtc tttacttata tcttttagag 240
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 tgggagtcct ttagaacaac atggcaattt gcttttaggc ataataaaaa ctttcatata 360
 agtgcattga atactaagag aagtttgata attgatgatt gttttgagat atggagatag 420
 tgatattaaa gttgtgctag ttgagtagtt gtgaa 455

<210> 6434

<211> 435

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-063-Q1-E1-E1

<400> 6434

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 tgcagatgta atcgatcggc aatgacatca agtcaaagga atgatggagc gaaagggtat 180
 tggaatcatg ggtacaacac aaactcgaaa tcaagcttgc tgttcaaggc gaaaagtgat 240
 aagacaagga agatcgatgt aagcttaacg cattgttgga agttgtgctc cggaagaag 300
 gaccacgtag catagttaaa atttagcatg gtaatgatat agccgatcag gctangaatg 360
 actataagga ttattaaact cgtaagcaac aaacattacc tagagttata gaatcggagt 420
 gtggaatcga ttcac 435

<210> 6435

<211> 263

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-E5

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ccgcccgtgg cgtggtggac ggagccgacg gatccctgga aatgaggcgc ggcacggagc 120

gagagactcg gtgggagacg agggatactt cgcgcgggga ataaaagatt actgctcaat 180

gcacgggctt ttctgaaatt ttctgaaatg gcctgtttta tcgaagcgtt tcctgtcaaa 240

ccctcgccgt cgctatgcag cca 263

<210> 6436

<211> 460

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-E9

<400> 6436

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ttaaggatat gtgagtacct atttatacta ctctatgagt atctccaaga gatgcacaca 180

accgtcgcga tgtgacgtac cagcaagtca aactcaacat aagctaaagt gtggaatact 240

gatgatgcaa cacctcctac tgaagaatgt aaagcctcaa tgataacgac atacataaag 300

caaccaagta accctcttgt gaattgtata gccagagccc cggctaaacc tgcattcagg 360

aataatgtta ttattcaaac aagcaagatt gaagcaagaa tatcctgaac tactactaac 420

agaattctat catcattaag gagtatacat ttcaaccttt 460

<210> 6437

<211> 466

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-F1

<400> 6437

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ctccgcgagg actacctcga gtgcctccac cactccaagg agttccagcg caggaacagg 180

atctacaagg aggagcaacg tcagataaga gctgctgctc gcaaggccaa ggacgaagcc 240
 gaaggagctc ctgctgttgc agctcaccac tagcatccgt ttttatttgc tgcaagtgtc 300
 tccatgttcg gctatgagca aggcaataat ttctaaaca ttctaccctc ccactccatg 360
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<210> 6438
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-F11
 <400> 6438

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 gaggacatga tggcgacgc acaattgagc gacggcaacc ttctaatacta tgccgggacg 180
 accggcggtg tactgaaggt cgatgccgac caccttgtagc ttgtctccag caagcaactg 240
 ctcaatgcgg ttgatgtagt catccacat gcccgagtcg atggtgtata gaaaaaatga 300
 aaatgttttt gaaaacaaag gataaaataa aaacgaaaaa ggataaataa aaggaaagaa 360
 atagaagcag aaacagaaaa aagcacaaca aaaaagaaaa aggaaaacgg agaaaaccag 420
 aaaaccggca aaaggaaaaa aattaaaaa 449

<210> 6439
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-F3
 <400> 6439

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 gggctactac gacaagatcc ggggcatgta ctacgagaac ccggccaaga cgggggagat 120
 cgtggcggtg taccagccga gccacgagga gaagcaggag tacggtcca acgagcacia 180
 ccagaaggcg ctggcggaga tctacctgtc cagctactgc gacaagatcg ccatgagcgc 240

ctgggtccacc ttcggttatg tgcctacgg cttcgccggc gtcaagccct ggatcctgct 300
 ccggccggac tggaacaagg aagtgtccga cgtcgctgc gtccgggtcca cgtccgtcga 360
 gccgtgcctg cactcgccgc cgatactcgg gtgcccggcc aagaaggagg tggacgtggc 420
 ccgctgcaag ccctacgtcc gacactg 447

<210> 6440
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-F6
 <400> 6440

attcccggt cgacgccaag aaaagcttct atcaatgtat catcagtatc aatcacgaca 60
 tgacaccaca caacagatat gctgctgtca gcagtcctct ctaaataagac actgcaatta 120
 tcgtataagt acatcattgc tgctgtcagc agtgcctctt aaatagacac tgcaattatc 180
 atgtacatca ttgctgctgc aatgaaccat taagagatta tttaaaatcg agcctaccat 240
 ctgctgtgtc gtcaacagag gggtgaggcg gagttacaaa atctgtatga gaaaccgagg 300
 gattgtccga gtcagcgaca tctttgttat cttcagagct gtcagaagca gctgagatgg 360
 cgtcacctga ttctgaatgt gttctgtcca catatgcttc aggtaaggag ctctcggcca 420
 cgtcagcat 429

<210> 6441
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-F7
 <400> 6441

ggtacaggtc aggaattccc gggtcgacgg ggcgctagac ttacggcaca ttacgggacg 60
 gagacttggc tcttgaatga tcgttctttt ttctctctct acccgcgcca ccttgcgtgca 120
 caggagggat tgctaacaca taatactgcg ctgcacctct gaaggaaaat tagtagccac 180
 catgaacgcg gatcatgccc ggctcggtaca tttctttgat gcatcttggt tgttcacctt 240
 gctgtataga aagatgagag atcagtgatc ggaaccgatg cattctgagt tagagattat 300

ctgttcttcc gtacaggggtt caaatatcag tttccgtacc accatggcga ttactatctg 360
 acatggagtc agcttttccg aaga 384

<210> 6442
 <211> 365
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-G10
 <400> 6442

tcccgggtcg acgggcacag gaaaaagggtg gaacactatg tgatctctgt ttactcacca 60
 ttagtcacaa gaacgtcaca cacctgttgc gtaacacgat aatttatcac tacacattct 120
 tagacggatc ctctacgcg catgcactca gtgttcactg aaatctatct ctatgaacta 180
 ttgctcgaac tgtggtcaag aaatatgttg aactcgctcc atcttcatca gacatctgta 240
 cactatacga tcctgtctcg atagttgcag tcatcatgcc acgtatatcc tcagtctcat 300
 gacttctcta ctgcctgtac tcatatactg tcatcatcat atctcaattt ctctctctcc 360
 gttcg 365

<210> 6443
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-G11
 <400> 6443

ggtaaaggtc aggaattccc gggtcgacgg gcatgatatc actgtggcgg actatgagat 60
 cgttgctcat gcactagagg atacggtcac ggagcacacc atccgcgtaa cacgctccac 120
 actaaagagg cgtgctacca cagatgctgg agcgtgaaac cccactgcaa accaatgttt 180
 tactgcctca agtaatcgtc gctctcacgt gctgagtcac tctcacattg tcccgtagtc 240
 atatgtcgag tgcattcgtt agtaaccctg atcaatagtt gaactcctca ttcacgcag 300
 cgtcctctct aaaggattca atcctacatg cacgtacaca cgtcgtccta gctatacgaa 360
 attctctctc 370

<210> 6444

<211> 447
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-063-Q1-E1-G12

 <400> 6444

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 cagatacaag aagttaaagg aaatgagcgc agaagagagg aagaaggta caccacgcac 120
 tgtcacggta ggagggaaag catttgcaac atacaccaat gctaaaagaa tagtgaaatt 180
 ggtaaattgat gttgggtgctg tggatgaaca tgatgctgac gtcaaccaat atctgaaggt 240
 ggtgttcatt ccaaactaca acgtatcaat ggctgaagtg ctcatctctg gcagtgaact 300
 gtcacagcac atcagtactg catgcatgga agcaagtgga acaagtaaca tgaagttctc 360
 tctgaatggc tgtgttatca ttggaactct cgatggagcc aatgttgaaa tcagagaaga 420
 attanggcaa gacaacttct tcctttt 447

<210> 6445
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-G3

 <400> 6445

ggtccagaat taccgggtcg acgggggagg catgttggg catcgttttc cacggaggct 60
 ggggagacta tccgcgcaac cctgtttccc ggtgatggca tcgggcctga gatcgccgag 120
 tcggtaagc acgtattcaa tgttgcaggt gtaccgatag aatgggaaga acattatgtt 180
 ggtacggaag ttgatccag aacagagagc tttttgacat gggagagcct ggagtctgtg 240
 cgtagaaaca aagttggctt gaaaggctct atggctacac ctattggaaa aggccaccgt 300
 tctttgaatc ctacattaag gaaagaactt ggactctacg ccaatgtcag accttgcaac 360
 agcctcccag gctacaagac tagatatgat gatgtgaacc ttgtgacaat ccgtgaaaat 420
 actgaatgag agtatactgg cct 443

<210> 6446
 <211> 437

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-063-Q1-E1-G4

<400> 6446

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 aagggtgatg actcaacata aaagtaaata gataggccct tcgtacaggg aagcagggat 120
 ttgtagaggg gccagagctc gatttttaaaa tagagatgga ataacatttt gagcggcata 180
 cttttgctgt caacgcaaca actatgatat ggctgtatct tccatactac atgcattata 240
 cgcagttccc aaacagaatg gtaaagggtt atactcccc aaccaccaac aagcatcaat 300
 ccatggcttg ctcgaaacaa cgagtgcctc caactaacia caggcctgng ggagttttgt 360
 ttaattatgt tgatttgctt tgatcttttt ggatcaaagg actgggcatc ccggttaccg 420
 gccctttctt gtgaatg 437

<210> 6447
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-G6
 <400> 6447

aggtaaaggt caggaattcc cgggtcgacg ggacgctcaa gaacgtgacc ccggcgctgc 60
 acccgagat gatcctggcg gcgaccaaca acggcgacat cgtggacgcc taagcaaagc 120
 aatgaaccac ggacaccaag gcgtacgtac gctggtgttt cggggcgaaa aatcaataag 180
 atggttcggt gaaacagagg atgcttaggg acgaggtctt gtctttgtga tttgtcagac 240
 tcgtgtttta ttccgatgtt tatctttagt tttcttgtgt tagcgtatgt tgttcatgcc 300
 acctgcccgc catgtgctct gctctgctct gcctcacggc agctccatgg atgatgaatc 360
 cttatggaac aagaggaggg aataaaaagg ttgagttcta tgtaaaaaaa aaaaaaaaac 420
 aacaaaacaa aaaaacaaaa aaaaggaaaa a 451

<210> 6448
 <211> 199
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H1

<400> 6448

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cgggtcgacg cgatcatcaa caccaacacc aacgttgccg gcagcatcat acccaagcga    60
tgacgtcatc gtcaccgcaa acatttgacc ccacatcagt ataaggtaca ttgactacg    120
ggagtcgacg gaacactgac actaactaca ggttgggtcaa aggttcaaag aaattctcct    180
ttaaattagg ccaatgcta                                     199
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<210> 6449

<211> 473

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H5

<400> 6449

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atcaaacttg ttatgataat tggacgggct agaatcagat gctttgcccc aagagaaatc    120
ttccagagct tgaatgggtgt ctcgaactgg tgggataaag ctcttgtgtg ctaccttggc    180
cagataggta gtcttcagag aatgatcaat gacttggttg atccaaggag caaagaattt    240
caggcacatt gggtgatgcy cagaatcctt cagaatgcgg aggaataagt cttcgacatc    300
gaagacaaat cgatgagaaa tagcatatat tgtgttccga agaacatccg agattgatcc    360
atcagtattc ataccgtcca gaggacaaat agtatatgtg agcagatgat aaatgggttg    420
attctcgaag gtcaaagtgt taagcatcgg agggccatca taatccttaa tct          473
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<210> 6450

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H6

<400> 6450

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atgatcatgt agttgacatc gtatttgtgg caacgccacc gttcataatt ctttcataca    120
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tgtcactctt gattcattgc atatcccggg acaccgccgg aggcattcat atagagtcac 180
 attttgttct aagtatcgag ttgtaatagt tgagttgtaa gaaaatagaa gtgtgatgat 240
 cttcattttt agagcattgt cccaagtgag gaaaaggatg atgggggacta tgattcccc 300
 acaagtcggg ataggactcc gaacgaaaaa tcaagaggcc atacatcaga agagaagaaa 360
 atgccaaga caaatagtat atgtgagcaa aaaaaagcgg ccgctct 407

<210> 6451
 <211> 367
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H7

<400> 6451

aggtacaggt ctagaattcc cgggtcgacg ggataagggg ctaaggtacc tatggattat 60
 gacgtcacgt cgtttttgca tgctatcatg tgactccggg atgcctgttt taagatttcg 120
 cttgtgttga cagatatgac tatctactgc ctgtagccta cctgggatac catcatatgt 180
 tgctgaatat ggtactactt ttatcctgct taagttctgt attttgcct agttgaaaaa 240
 caagcatagt aatgaatctt catttttaaa acattgtccc aggtgaacaa gacgatgata 300
 gcgactatca ttctcccaga gactccatat atgactctta gtgatcacat aaagaggcca 360
 tacaaga 367

<210> 6452
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H8

<400> 6452

gggccgacgg ggagcacaag aaggcggagg agcacaagaa gaaggacggg gagcacaaga 60
 aggacggcga gcacaaggag ggcatgatgg agaagatcaa ggacaagatc agcggcgacg 120
 gccacggcga cggcaagaag gacggcgacc acaaggagaa gaaggacaag aagaagaagg 180
 acaagaagca cggcgagggc cacaaggacg acgacggcca cggcagcagc agcagcgaca 240
 gcgacagcga ctgagccagc tccggccgcg ctccggcagc agcgtgcagt gtaggcgaga 300

tcgatgaacg cttgggagaa gtgtggcata catatatgtt gcagggtttg gagcgtgtgg 360
 taccatatgt atgtaatgcg tgacatgtct caatggatct gtgatgtata ataattagcc 420
 ggctgcactg cactgcac 438

<210> 6453
 <211> 322
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-H9
 <400> 6453

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 gctctcacca taacacgacg gtcacttggga tccttctcca cagaggtgct taatcatgct 120
 cgtocattgc agaggcggag ggcacgcac agggctaact taatgtctgt tatggatatct 180
 aaggtgccac ctgatgcgaa catggcagac caaggtggtg aaacaggaca tgattcggag 240
 ccgatgcata tagtactatc tattcgggtgt gacccaactg tgacagtgtt ccgacttaac 300
 agaccatact ttgtggtacc ta 322

<210> 6454
 <211> 365
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-A10
 <400> 6454

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 ttgttgatc acgacctgaa tgaaataaac gaaataatgc tcttgttcaa acatcaaaaa 120
 aaaaaaaaaa aaaaaacaaa caaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aactaaaaa 180
 aaaaaaaaaa accaaggaaa acaaattatt aaaaaaatca aaaaaaaaag gccctccaaa 240
 acaatcaaat ctaacttacc cttcccttca acgcaaaatc cctccccatc taaaccctaa 300
 ctaaaattaa aggcccggcc tttaaaagta cccgcacggg aaaaacacaa cctttaccca 360
 accaa 365

<210> 6455

<211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-C10
 <400> 6455

ttccgggtca acggggccag agatcatcac caccctgtat gactggcgca tccacgtcgg 60
 cgatggcgag tcggcgccgc gagaccgcag tgagcgcatc tgccaccctg ccgctcctcc 120
 tgtagccggc gtgatgacga cgaagatgac caccgtcggg aggaccaaga ccgagatcgt 180
 cggggccgtg acggctccag gaacggcagg ggctgggggg agaggggtgcg tcgcagcctc 240
 tcccgcgccc cccgggacga caaccgcgac cgtggctcag agcagcaagg aggtcgtgat 300
 ggcggtcggc gatgccatga ggaagtggcc ctttcgctgc tgctacgtgg ctccggctcc 360
 tccagcgtgg tggccgcaca cgatgccgag atggtgccag ttgctcctcc gccgcctggc 420
 cgtacaatct cccc 434

<210> 6456
 <211> 148
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-C11
 <400> 6456

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 gatttttgca gtgggatttg tagggtaacca tgctgcgctg tgtttgggag ttgacatcgg 120
 tccatgggat atgtgccacg ctcttaaa 148

<210> 6457
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-C9
 <400> 6457

ttcccgggtc cacggggacg tccgtgaacc ggtgctccag ctgccggaag cgcgtggggc 60
 tgacggggtc ccggtgccgg tgcggcgaca tgttctgcgg cgagcaccgg tactcggacc 120

ggcacgggtg cagctacgac tacaaggccg ccgccaggga cgccatcgcc agggacaacc 180
 ccgtcgtgcg cgccgccaag atcgtcaggt tctgaagctg aaaccaaggg gaaagaagaa 240
 ttcagaattc cagccgaggc aaagcaaaga atcatctcat cgaggcagtg ggccgccgtg 300
 cgagccgcta gtattatgct gttgttctcc ggagtgttcc cttttttaat taaaaaatc 360
 tttatttatt ggaaggaaaa aaatgggagg taaagatgtg gatg 404

<210> 6458
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-D12

<400> 6458

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 atcaaataat atgtatggac gggcattctc tctactgaagc aactacaca gttctacaga 120
 attccgcctt ggtgggtccg tatatggacg aacacaagaa ttttctacag tccaaacacc 180
 cggagaattc tgacgactag attacacgtg aacaaacgag gacttttgcc ggttggttgc 240
 agaaacatgc cctgaatgat ggtgatattc aaaatgacct atactcgctg tcccagttac 300
 catcttcgaa tataatgact ttcaaagggt accagataaa tgggaataca ttttacacga 360
 tcgccaaga taagaagagc agcaagcaaa acagtgggtg ctgcttcgat gcaacaacca 420
 acacgggaaa ggaagcataa taggggtaca t 451

<210> 6459
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-H12

<400> 6459

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 cgggactgat tgggaaagtg gatactaccc acttactctc cacttactg aggactaccc 120
 tagcaaacct cccaagtgc agttcccgca tggttttttc caccctaatg tctatccttc 180
 agggacagtc tgcctctcga ttcttaatga ggatagtggg tggagacctg ccatcactgt 240

taaccacatt ccagttggaa tacacgagtt gcctgatcaa actaatccag ctgatgctgc 300
ctagactgat ggttatcagc tcgttatcca cgatccagca gagtacaaga gaagcattcg 360
gatgcaggcc aagcactagc ctgcctctgg t 391

<210> 6460
<211> 195
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A10
<400> 6460

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gttgatcgc gacctgaatg aaataaacga aataatgctc ttgttcaaac gtcaaaaaaa 120
aaaaagaag taaagaaaa taaatggaaa agatatatta atgtaaatga aatgaaaaat 180
aaaatgtatc caagg 195

<210> 6461
<211> 358
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A11
<400> 6461

aacgtggatg tggacgagtc gगतगगगग ctcttagatg atgaaaagaa acccgatatc 60
acgaaacgac cacacactcc tattggagat gaggtggaat gcaagaagcc aaagatagca 120
gaaggctcaa ggtgccaagg agaagaacct gaggctggag ggataaagaa ttcctcctgg 180
gtctgatgac aggggaatgc agtaaacacc agaagcatca aaactatgat ctggaacagt 240
atcctgaata aactattttc tggattatga atgaattctg aagcatgggg ctataagtga 300
attatgtaac atggatttgt aactatgggtg gatgttaagt taacgttcta tcagtgcc 358

<210> 6462
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A3

<400> 6462

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gggtcgacgg gtgtgatgtg cttaagatgc agatcctcaa caggaaccct acgacagatg   60
gtattgcagt taagaggaaa ctcaatgctg atggatccta ctataaacct gagtagtatc  120
ccaaaacctc atgggttact gcaaaaggac ctcccgtaga tccatcgact ttatctgggt  180
ttacatgtga atcctcatat tcatctgatg agtcatctac tctaactaga aattgttcaa  240
aaataatcat ggtgaggtat ttgccagata tgttggaact aattgcagga acggctctcc  300
tatgaagaaa atctgggttc caaaatatg ccttgaaagt cttcaggtga atgtcctcat  360
gacaccacct gtgaagaata ggaacccac atcaaa                               396

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<210> 6463

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-B11

<400> 6463

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ggtcgaaata cccgggtcga cggggaccac aaggagaaga aggacaagaa gaagaagaag   60
gacaagaagc acggcgaggg ccacaaggac gacgacggcc acggcagcag cagcagcgac  120
agcgacagcg actgagccag ctccggccgc gtcocggcag cagcgtgcag tgtaggcgag  180
atcgatgaac gcttgggaga agtgtggcat acatatatgt tgcaggggtt ggagcgtgtg  240
gtagcatatg tatgtaatgc gtgacatgtc tcatggatct tgtgatgtat aataattagc  300
cggtctgact gcactgcacg gtgcttgtaa taataacggt aatgaatcat gttggtattg  360
atac                               364

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<210> 6464

<211> 445

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-001-Q1-E2-B2

<400> 6464

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cggtcgagna ttccgggtcg acgggaacat ctctccac tgaaagcgca tcgccgaaa   60
tcctgaaata aatccaggaa taatgcgagc accaggattt gaaccctggt gggttgggga  120

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taccactgtc cacctaacca actcaaccac aggttgattc gcaatgacta catgtattaa 180
cgaattacta catgctcatt ataattgctc ttttacgatg ctaagatggg tagttatgat 240
caattagtgg tttagagggt aggcgtcgag gtaacttggt actattggct tttttttga 300
ggaatgtggg cctgtcgaag cggtggactc tgggtgttacg ttagaatttt cacagatgag 360
cgcaatgcac aaaaaaagga aaccaaagac ttcccaaatac tggcagcatt ccccaccatc 420
tccttcctct agaacattct gtctc 445

<210> 6465
<211> 304
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-B3
<400> 6465

atttaaacad gtccatggat tcatgtctgt acaaagtgtt taactgatga ttacatccca 60
aagtagatgc acagtcagga ggcgatttaa gtttttataa aataccatt gttcatgctc 120
caagtgtacg ctaagatgac caactatggg cagtcagtcg tttagaggcc tagcctccag 180
gtgcattgta cctcaacatc aattatggca cagatattca ctttcctett caagattgat 240
ccagatgaga cgcaacgatc tgtataccat ctcgtatgag aatttctgaa ggttgtaa 300
attt 304

<210> 6466
<211> 186
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-C11
<400> 6466

cggttcgacg ggcaatggag gatgtaggtg tgatatgtca agtagtggac agataagcca 60
accactggat gtggttttca gggatttttg cagtgggatt tgtagggtac tatgctgcgc 120
tgtgtttggg atttgaaata aaacgatggg agatgtgcca cgctcttaaa aaaaaacagg 180
agaggg 186

ggggtcccg ggcgggtgcg gcgacatgtt ctgcggcgag caccggtact cggaccggca 120
 cgggtgcagc tacgactaca aggccgccgc cagggacgcc atcgccaggg acaaccccg 180
 cgtgcgcgcc gccaaagatcg tcaggttctg aagctgaaac caaggggaaa gaagaattca 240
 gaattccagc cgaggcaaag caaagaatca tctcatcgag gcagtgggcc gccgtgag 300
 ccgctagtat tatgtgtttg ttctccggag tgtttccctt ttttaattaan aaaatcttta 360
 tttattggaa ggaaaaaaat gggaagtaaa gatgtggatg aaaaa 405

<210> 6470
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-D1

<400> 6470

cgggtccgaga atcccgggtc gacggggcgc ctgtcctaca actatgacaa taccctgact 60
 ctcaaggggc gcttcaactc ggatcttcat gtgggcggga tgatacagtt tgaagaaagg 120
 ttggctagta ttgtgttgcg ggcaacaggt gatgttgatc ttcgtgctat gggtcagcag 180
 ccccgggtcg ggttccaagt ggtgtttgac ccgacctgga agtaagtagc ctttgccctt 240
 gcagtgttgg tgcttgtttt gcttttgctt gggaggaact tttttggtaa aacggaaggt 300
 cttgattttg ggttgtccat gatgattgat gtatggactg aagctttaga cttgtcaatt 360
 cgactatgtt ggttttgcgg aagcttgatt gtcctctcat ac 402

<210> 6471
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-D12

<400> 6471

gcacggtcga gtatcncggg tcgacgggct ggaaggaaaa ggcacgctag gagggcatca 60
 aataatatgt atggacgggc attctctcac tgaagcacac tacacagttc tacagaattc 120
 cgccttggtg gctccgtata tggaggaaca caagaatttt ctacagtcca aacacccgga 180
 gaattctgac gactagatta cacgtgaaca aacgaggact tttgcgggtt ggttgcagaa 240

acatgccctg aatgatggtg atattcaaaa tgacctatac tcgctgtcnc agttaccatc 300
 ttcgaatata atgactttca aagggtacca gataaatggg aatacatttt acacgatcgc 360
 ccaagataag aagagcacca accaaaacag tgggtgtctgc ttcgatgcaa caaccaacac 420
 gggaaaggaa acatat 436

<210> 6472
 <211> 157
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D2
 <400> 6472

acgggtccgac tattccgggt cgaccggaag atcgactaa ctgagctgac agacgctcac 60
 tcgaaacggg ggtctcaacc cgcatgataa gttcagcgca atacgacaga tatcaaaacc 120
 gatggctact gctgcattga ggtcaacaag tgaagtt 157

<210> 6473
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-E10
 <400> 6473

cgggtccacg ggggttaatca taagtaggag gtttgttcaa gtaagaacag tacctaagca 60
 ccgggtccacc cacatatcaa attatcaaag tagcgaacac aaatcaaadc aacatgatga 120
 aagtgactgg atgaaattcc cgtgtaccct caagaacgct ttgcttattg taagagatcg 180
 ttttggcctg tcccttgccct caaaaggatt gggctacctt gctgcacctt tggtactatt 240
 accattactt gctcgttaca aaatatcctg ctatcaaact actatgttac ctacaatttc 300
 agcacttgca tacattacct tgctgaaaac cacttgatcat taccttttgc tcctcattgg 360
 gttcgacact cttacttata ctagaagagc tacaattgat cccaatactt gtgggtca 418

<210> 6474
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E2

<400> 6474

ccgggtcgac gggaggggtt gttttcttct ctaagtcctt tttcctcata acatatgccc 60
ttgttcaccg catcgtaact ttgcacccgt agctccgttt tgggcgtgta gcatatcaaa 120
ttgttcacat ggatatgcac ttcatttcat tccattgtac catattcatt tgagggtcatc 180
ttgatgccct aaatgctgtt gcaagagtgc tatgtaatgt tagtttcaga ttcttaccag 240
attatcgaca tttgtcattt ttgccatgtt taatgatgag gacatgacta ccttggatat 300
gaccaaaaat attgcatata tgcataattg tcagggtgatt tctagtgcaa actattcaat 360
aatctattta tgttatccag aacaaaaata cttcacacac ttttgtgttt tg 412

<210> 6475

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E3

<400> 6475

cggtcgagat attccgggtc gacgggtact tgaatattgt tatgataatt atgcttctaa 60
tgccatatgtt aaaccatata ttgagaaatt caacgctgac gaagaagaga ctaatatttt 120
gcaggacgct atggaagaag aaattgatga aactgtgagc tcattggatg aaagagatga 180
tgaggagagc gaagaacaaa ggaggaagag cggattagct acccgtgtcc accttctaata 240
gagagtaacc ctccaactca tacattattt aattcccctt cgttcttacc gaaggatgat 300
tgctatgatg attgctatga tcccttgaat ttgtttgaaa tatccctttt tgatgatgct 360
ttctatgctt gtggccaaga tgccaatata aattatgctt atggacatga acttgctaga 420
gtccttatgt taaacatgaa attg 444

<210> 6476

<211> 438

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-001-Q1-E2-E4

<400> 6476

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ggacacgaag ttttatccag gttcggggccc tctcgatgga ggtaaaaccc tacgtcctgc 120

ttgattaata ttgatgatat gggtagtaca agagttatct gttttgtgca ggtacgaggg 180

actcgtgcat agcctcctac tggattgata ccttggttct caaaaactga gggaaatact 240

tacgtacttt tgctgcatca tcctttcctc ttcaaggaaa tccaacgcag tgctcaagag 300

gtagcagacc tttccttaga acgtttggtg caattattga tatgaaggaa gggaatatta 360

tattccaatt tccgttaagg aaaggcatgg aacacttccc tagaaagaaa aataaattac 420

cttatgaatc tattatga 438

<210> 6477

<211> 289

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E6

<400> 6477

ttcccgggtcg acggggcgggtg gcgcgagctt ggagctgctg gaaggcaagc ccctcccagg 60

tggttcttgcc cttgacgagg cgtagggttga ttcgggttca cctatcagct tgctgcgtgc 120

cctttgtttg ggatctcatc ttggtctaac gctggaacgt tatatgtccc aatgaaactt 180

tgacatagggc ttgtcgccaa tttttgctag taaatgagtc gtgaataagt atcaatttgc 240

tccgtgcgag tgaactcatg tgactggaac ttaacgtagc cccgtcgat 289

<210> 6478

<211> 124

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E7

<400> 6478

acgcggccgt acggactgaa ttcgggggtcg acgggaagat ctactgact gagctgacgg 60

acgcgctgcg gacgtggtgg tcgacctccg cggacgaagt gctgcgcatg atggcggaga 120

tcca 124

<210> 6479
 <211> 211
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E9

<400> 6479

tcgagggcaa ggggactggc atggatgcat cctgtgtgga tgcattcagc caaccaactt 60
 cctacggata atggtttggt accattccca agaattgcta ctttttcttc gcatgttggg 120
 tagtttgctg tatcatgacg cagcttgta cctagacacg cttctctggc atatattagc 180
 tcggtgattc aataagaacg tctcgtttcc g 211

<210> 6480
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F1

<400> 6480

atcctgccgc acggtcgagt attccgggtc gacggggagt gcgacgaagg tgccatggcc 60
 gccatagccc agtctgcgcc ggattctgtg ctgatgacat tggcggagtt tgagacggca 120
 agagaggcgt ggaatgcact caaagagatg aggattgaat aaaatcgtgt cacgaaggct 180
 cgggcacaag tgctgaagcg ccaatttcac aagttgcaga tggagaaaac tgaatcgggtg 240
 aacgactatg ccatgcgtct gactactttg gtgggagaga tccacgcgct tgggtgcaaag 300
 ctgcacgaga ccgagattgt ggagaagttt ttcagttcgg tgactgataa attcacgtac 360
 atcatcggca cgctcgagca gctttacgac atcgacgaca tgaccataac 410

<210> 6481
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F10

<400> 6481

cgggtccacg ggaggggttg atttcttctc taagtccttt ttcctcataa catatgccct 60

tggtcaccgc atcgtaactt tgcacccgta gctccgtttt gggcgtgtag catatcaaatt 120
 tggtcatctg gatatgcaact tcatttcatt ccattgtacc atattcattt gaggtcatct 180
 tgatgcccta aatgctgttg caagagtgct atgtaatgtt agtttcagat tottaccaga 240
 ttatcgacat ttgtcatttt tgccatgttt aatgatgagg acatgactac cttggatatg 300
 accaaaaata ttgcatatat gcatatttgt cagggtgattt ctagtgcaaa ctattcaata 360
 atctatttat gttatccaga acaaaaatac ttcacacact tttgtgtttt gt 412

<210> 6482
 <211> 229
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F11

<400> 6482
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 tgtgcatttc atcgtaacgt tatgggcatc taaccgtgat gggcgtgtag catacatatg 120
 agtcaactg gagatgcaca tcacttcgat ccattgtacc agattcatga gatgtcaacg 180
 ggcatgcca gatgctgctc aactagtgtc ctggagcatg atcttcata 229

<210> 6483
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F3

<400> 6483
 cgccacggtc cgtacaatcc gggtcgacat gggcgacatg ctgatgatgg acagggtccg 60
 tcaatggcag gccacgcaca accggtcgta cctgagcgcg gaggagagggc tgcgtcgctt 120
 ccgggtgtac cgcgacaacg tggagtacat cgacgccacc aaccggcgcg gcgacctcac 180
 ctacgagctc ggcgagaatg agttcgccga cctcaccag gaggagttcc tagccaggta 240
 cgcgtcgctc tacgatgggg tcggtgatga tactggcatc acgttgcttg tggggcggtg 300
 cgacgccgag ctgtggtcgt ccggggcgga caatgatagc tccttgaggg ctccgcctcc 360
 cagctgggac tggagatcca agggcgccgt cacaccggtc aagtcccaag gcgcaggatg 420

cgctagctgc tgggcgttcg tga

443

<210> 6484

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F4

<400> 6484

gggtcgaccg gaggcggtca cgtacaaaa agcgcgacga cgacgacgat gatgagagga 60

agccgcggta caagaagcac gacgacgacg atgatgacca cgagaggagg ccgcggtaca 120

agaaacgtga cgacgacgac gatgatgacg atgacagaaa gccacgttac aagaagcgct 180

acgacgacga cgacgatgat gataggaagc cacgttacaa gaagcacgat gatgatgatg 240

acgacgacga tgataggaag cagcgtcgcg ggaacaaccg ccgccgccac gatgacgatg 300

actgattatg acatgagttt aagctgacgc taataagcat agttgcggcg gctttgcatc 360

gatgaattac gacatttcac tttttttc 388

<210> 6485

<211> 432

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-001-Q1-E2-F9

<400> 6485

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atatattgag aaattcaacg ctgacgaaga agagactaat agtttgcagg acgctatgga 120

tgacgaaatt gatgaaactg tgagctcatt ggatgaaaga gatgatgagg agagcgaaga 180

acattggatg aagagcggat tagctacccg tgtcgacctt ctagtgagag taaccctcca 240

tctcatacat tatataattc gccttcgttc ttaccgaacg atgattgcta tgattattgc 300

tatgatcnct tgaatttggt tgaatatatcc ctttttgatg atgctttcaa tgcttggtggc 360

caagatgcc aataaatta tgcttatgga catgaacttg ctttagtcct tatgttagac 420

atgaaattgt tg 432

<210> 6486
 <211> 293
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-001-Q1-E2-G10

 <400> 6486

 ccgggtccac ggggtctaca gcaacggcgg tgttggtctc ccacacaagg agatcaagtc 60
 aagcatcctg aagcctgaga tcgtcatgtg agctcaccgc tcacaaatgc ttttaggaac 120
 gatgttgtgt ggcgtctttg ttctagtgc tactgtaaac agcttaatat atgtggaact 180
 tgcgagactt gttaaactga tgagagtgtg tgtgcaaat gaaaaagaag ttagtaaact 240
 caataacaag caagtaaagg tagagattgc ctcacacaaa taagacatca agg 293

<210> 6487
 <211> 375
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-001-Q1-E2-G11

 <400> 6487

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 ttatgaattt aatcctaata tgatgggcat ccaacaggga tatacttgta actttcatat 120
 gaagtgcact gaatactaag ataagtttga tacatgataa ttgttttgag atatgaagat 180
 ggtcagtggc agagccaact caagtttata gccggggcat gatctacatg ctgccaaatt 240
 acttactttc tacccaaaca aacgtccact tcaccaatt ttcttacta aagcttcatg 300
 gacttgacc aaggagccc gggcatgtgc tccagcgtca cacgtgctgt caacggcact 360
 gaagatggtg atatt 375

<210> 6488
 <211> 383
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-G12

 <400> 6488

cgggtcgacc ggacttatat tattttgaga gtcctaaaca acatggtaat ttgctttggt 60
 tatgaattta gtcctaatat gatgggcac caagagggat ataataaaaa ctttcatatg 120
 aagtgcattg aataactaaga gaagtttgat acttgataat tgttttgaga tatgaagatg 180
 gtcagtggcg gagccaactc aagtttagag cgggggcaag atctaagtgc tgccaaatta 240
 cttagtttct acccaaaca acttccactt cacccaattt tctctactag agcttcatgg 300
 acttgcacca agggagcccg ggcaagtgcc ccagctcgcc aggtgctgtc ancgccactg 360
 aagatggtga tattaaagtt gtg 383

<210> 6489
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-G2
 <400> 6489

cgggtcgacc ggaggttcac aggagagaag cgacggagtt agaagttgta aatatgcatt 60
 gttgtatcgc gacctgaatg aaataaacga aataatgctc ttgttcaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcccccaa 240
 aaagattaaa agttaatta cccttaaagg aaaattaaaa ccccttcaaa agtttcccaa 300
 aattcaaatt aaggggcttt ctttttaaaa attcttaagg ggaaaaaccc ggggttaacc 360
 aaattaaacc cctttg 376

<210> 6490
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-G3
 <400> 6490

cggtcgtaca ttccgggtcc acgggggttc tgcattggaa tttttcattt atcattctga 60
 cgttataaca ctttggtttt ctttcatttc catatttggg ttcatatgat tcattgttta 120
 ttttaactttt ctttttgttc tttgtaagtt tgtaacagtt ttgtaatttt ttacacatgt 180

ttactttttt ctcagtatag aatgttaaatt tttaaagcac acatgaaata ttttgggtac 240
ccattgaaca tttttcagat acattatgta catgttttaa atacatgctt tgaacacttt 300
ttcaaagtca tattatcagt atatattttc taaactatgc aaatatttgt ctgcattgta 360
cataccattt cagaataatc acgaacatct actggaaata tatgatt 407

<210> 6491
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G8

<400> 6491

tccacggggc tgaagaaagt gagtgcgttg aacttacaaa agctgatata aactcacgca 60
tttagaagct agatatggtt cttggaactc gttccactgt tcagcataat agtgatactg 120
cctatagtgg tctacatttg ttttgcttac agttgaaggg cctaacttgt agaacgatca 180
acattgtgtc aagaagatgc aagtgtatgt acgcatgtgc aaggggaaca agaacggagt 240
tacaagtgat gatttcagga ctttgaatcc accataatgg gtgcatgaag ccttggacta 300
aatatacaag atgctacttc ataaatttcg ttccgaggct atttttaggtg ctgcgtcacc 360
ttagtattgg gccaggccca tgtaatttcg aaataca 397

<210> 6492
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G9

<400> 6492

cggtcgtact atccgggtcg actcctcagg agacggctct tcgccctggg gtcttgaggg 60
gcgcagcctg ccccgatgtc ttgaaagggt atgggactcg ggttggccta cccgtgggtcc 120
attactccga caaataactaa gagaagtttg atacttgatg attgttttga gatatgagga 180
tggtaatatt agagtcgtgc tagttgagta gttgtgaatt tgagaaatgc ttgtgttgaa 240
gtttgcaagt cgcgtagcat gcacgtatgg taaacgttgt gtaacaaaaa tgaaacatga 300
gggtgtatatt gattgtcctc cttatgagtg gcggtcgggg acgagcgtg gtcttt 356

<210> 6493
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E2-H10

 <400> 6493

 gtcgaccggg agattcaatt aatgacgagc tgaggaaaaa ggagaataat cgtttgattt 60
 tggccaaaca tacctctctt ttgaagaaca tgaagagaaa actcattttg gcgaaaacaa 120
 aggttgcaaa agcagagatg gctttggcga aagttcagga atatctctct ccagcagagc 180
 ttccaacgga tctggaaact gttacagacg aggagcgttt cctattccgc agaattggcc 240
 tgaaaatgaa ggcctttttg atgcttggca ggcgggaagt ttttgatggg actgtgcaaa 300
 acatgcactt ccattggaag catcgagaat tgggtcaaaat tgttgtgaag gggaagacct 360
 ttgaacaagt taaacatatt gctatctctc tagaagctga gagtggaggc gtgctcaatg 420
 cactcgacaa gacaacaaa 439

<210> 6494
 <211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E2-H11

 <400> 6494

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 tttggccaaa catacctctc ttttgaagaa catgaagaga aaactcattt tggcgaaaac 120
 aaaggttgca aaagcagaga tggctttggc gaaagttcag gaatatctct ctccagcaga 180
 gcttccaacg gatctggaaa ctgttacaga cgaggagcgt ttcctattcc gcagaattgg 240
 cctgaaaatg aaggcctttt tgatgcttgg caagcgggaa gtttttgatg gtactgtgca 300
 aaacatgcac ttccattgga agcatcgaga attgggtcaaa attggtgtga aggggaagac 360
 ctttgaacaa gttaaacata ttgctatccc tctagaagct gagagtggag gcgtgctcat 420
 tgcactcgac aagacaac 438

<210> 6495

<211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-H12
 <400> 6495

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 attgggaaag tggatactac ccacttactc tccacttcag tgaggactac cctagcaaac 120
 ctcccaagtg caagttcccg catgggtttt tccacccaaa tgtctatcct tcaaggacgg 180
 tctgcctctc gattcttaat gaggatagtg gttggagacc tgccatcact gttaagcaga 240
 ttctagttgg aatacaggat ttgcttgatc aacctaatac agctgatacct gnccagactg 300
 atggttatca cctctttatc caggatccag cagagtacag gagacgcatt cggctgcagg 360
 ccaagcagta ccctgctctg gtttggggat ccaacgtaac agtctaaaat catgaattac 420
 cgcacctgaa 430

<210> 6496
 <211> 147
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H3
 <400> 6496

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 acattattac acggtggttc acttgacatt tccattatta gtactatgat ttcaatgttt 120
 tgaaaactag gccttcagtt ctatgta 147

<210> 6497
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H6
 <400> 6497

attcgcgcgt cgacggacct gcagcaatac atactggacc aattactaga gctcgtgcac 60
 gccaaactaaa ttaccaggta ctttcgtttc ttggtaatgg ttctaagtgt catgagaata 120

tgatgctgcc taaattggat acatttgttt tgcttacaaa tgaagggcct agcttggaga 180
 aggatgaaca ttggagcaag aacaagcatg gagatgatgg catgtgcaag gggaacaaga 240
 acggagttac aagtgatgat ttcaggactt tgaagccacc ataatgggtg catgaagcct 300
 tggacgaaat atacaagatg ccacttcata aatttcgttc cgaggctatt ttaggtgctg 360
 cgtcacctta gtattggggc aggcccatgt tatttcgaaa tacataagta taggctattt 420
 ttagagtccg tatgtgttgg g 441

<210> 6498
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H8
 <400> 6498

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 atacagcgaa atgccagagg tagctagcgc ataatagtgc actagtagta gtacacttgt 120
 atcagcttca gcaaacgatt ccctattccc aagaaattgc acgtatatgg agagttgagg 180
 caaagaacct gtttcagcag tctccctaaa cccaaaaaat tatctcctca agtagtggag 240
 agttgcaacc ctccccataa attttcaatg cttgccatgt cagtgcgccg cctccattga 300
 ccgccgcgcg actggaccac tgccgcctgc tggaacatca ccgctggcgc cggacttctg 360
 tgctgccgtt gctggacatc cgcgcgcccg ccagctgtca tcgcagcctt gacgaaaaga 420
 tgcaaatggg agagagggga aaaa 444

<210> 6499
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H9
 <400> 6499

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 gctagccaga cacagctaaa tgccagagct agctagcgc taatagtgc ctagtagtag 120
 tacacttgta tcacttcag caaactactc cctattccca agaaattgca cgtataggga 180

gagttgaggc aaaaaacctg cttcagcagt ctccctaaac ccaaaaaatt atctcctcaa 240
 atagtggaga gttgcaaccc tccccataaa ttttcaatgc ttgccatgtc agtgcgccgc 300
 ctccattgac cgccgcgcca ctggaccact gccgctgtct ggaacaccac cgctgccgcc 360
 ggactttctgt gctggcgttg ctggacatcc gcgcgcgcgg caactgccac cgcagccttg 420
 acgaaaagat gcaaattgaga gagagg 446

<210> 6500
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-A3

<400> 6500

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 cctcccgtgc tgcgaaaccg aaactgactt ggcctgagtt tcgtcgttgt tccatgctcc 180
 cggctatcct agatggtagg taatgtcgga acacaggggg atgggtggggc agtgttgtta 240
 ccatatgata caaggggtac cttttctttc ttcatgctga accttgtact gtgtagcttc 300
 tatgctggtg tttcatgcta gtgattttta gcagtaaag catgtaacct gactatttga 360
 atgatttgaa caaagttgtg cgaaaaaaaa aagaaggngg ag 402

<210> 6501
 <211> 201
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-A5

<400> 6501

aagtgagtcg tattagtgga caatcctgta taagtcttgt gccgccatgg cgttttatca 60
 cgcagttgtc gtcctatgctc aaggtatatg tcatgtggct gcggactccc gtgctgcgaa 120
 accgagactg acttggcctg aatttcgtcc ttgttccatg ctcccggtta tcttgcacgc 180
 taggtagtgt cagcacacac g 201

<210> 6502
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B1

<400> 6502

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 cacctttaa gatcaaggac tgactaaaca ttgtgattca tggtaaaaga gatccagtca 180
 agtcataccc aatataaacc aaaagtaatg aatcaaaatg acagtgttct ctccagcggg 240
 tgcttttaat aagaaggggtg atgactcaac ataaaagtaa atagataggc cttttgtaga 300
 gggaagcagg gatttgtaga ggtgccagag ctcgattttg aaatagagat agaataacat 360
 tttgagcggc atactttcgc tgtcaatgca acaactatga gatggctgta tcttcatac 420
 tacatgca 428

<210> 6503
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B11

<400> 6503

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 acttctgact cacacacagt gaagccgcac cagagaagtt caaggaagag ccactacaaa 120
 tacaagcccc caaagggcag cagcagcagc agccgcacta gcagtggcag caaaaaggac 180
 aagaagcatt ctaccacag cagcagcagc agcagtaaaa gagataagaa accttccac 240
 cgcagtagca atggtggcag cagcagaact gacactagt atcctcacca tcggaaggca 300
 tatggcagca gcattaccag cagaactgat actagtgttc ctgaatatca taagttatcg 360
 ccgtggcagc caccggctag tgccgcagtg gaagaagcca tgccccctgt acctgt 416

<210> 6504
 <211> 339
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B12

<400> 6504

accggctccta gattcgcggg cgcacagaag acgacaaaag cggatgaattg tgactaagtt 60

gactgtttca tgggcccctg acgtatatga tcctcctgtt acttctgact cacacacagt 120

gaagccgcac cagagagggtt caaggaagag ccactacaag tacaagcccc caaagggcat 180

cagcagcagc agccgcacta gcagtggcag caaagatgac aagaaacatt ctcaccacag 240

cagcagcagc agcagtaata gagataaaa accttcccat cgcaatagca atgggtggcag 300

cagcaacact gacactagtg atcctcacca tcggaatgc 339

<210> 6505

<211> 262

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B3

<400> 6505

ctcccggttc gaacgggtcg ataactcttt ctttagcagc attgaaatcc tcttgaacct 60

ttagggaatg ccgctgcagt ctactaaaga aatcaaacag acccaactgc tcaactacaa 120

atttcgtagg agtaatctgt cgcacacatg cacctcatal cgagggtaaa tgattcaaaa 180

tgattgacga agctaaaatc taaagacaac ttaagattac tgaaaactgc ccaaagcaat 240

aatatgactg agttgttaga tg 262

<210> 6506

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-D1

<400> 6506

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ctcttaaaga attcttggtg ttgtgatact tctcaccctc accattcttt cttgggtccgc 120

gtgttgattc taaccgggat accaacacgt gaaccatgct gcttggattc tgtacttcta 180

gcaaccctat tgctttgaag ttaatggtca acatttcac cttagaccat tggttattga 240
atcaccattc taacattgat cctgctacct aagcccatat ttcgggtgca cttttcaacc 300
agtgattaat tgtggtatgt ttccctcgag tatacatcat tatatcattt gatctgttaa 360
atgttatctc cttgttcaca taattgtgga aatccacott tttgtgaatc tcaatgaatt 420
gtcactgagc ccac 435

<210> 6507
<211> 184
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E1-D3
<400> 6507

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cactatcatc ctgtacataa gcaaggcaac cccagtcacc aatctatacc tactttgtaa 120
ggggagaagg tttcttactg ctgaattttc atccgttaat ttcgtttgtc catcacggta 180
acaa 184

<210> 6508
<211> 403
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E1-E2
<400> 6508

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aagcagtaaa atttattgaa agttgacgaa catagcattg gtcaatgatg catttcatga 120
aagaaattaa taagggaaga caagattcac atgcaaatat accgtcttgg acttctttta 180
tgattgtgag ccccatthaag tatttttatgt caaattattg acgttggaca aggaagacaa 240
cataatgatt tatgtttgtt catattcaca cagaagttac tagcaaaaaga gcccggtcgt 300
tgcaacggga gagaaaacat aacacacact cttaaccga caaccatcac ccaagactac 360
aatatgtcca tcccctttta tttttcgaga tatcatattt gtg 403

<210> 6509

<211> 324
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-E3

 <400> 6509

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 gtggaggcgc tggcggagtc gtagtgtgga ggaccgccag cgatctggcc gtgtgtgctt 120
 aggacagttt ttatcgaacc aaaaacttaa tttccaaata gccgcctcaa agcatatctt 180
 ccaacaaatt ctgagttttt ttacgttgc atttctatcc taaaactttc cttttgttat 240
 ttctcccatc ctgttgcgta tgtaaatttc acttccgcgt acattttaaa aacatttcaa 300
 ttgtgaatgc acgaaatcaa tttc 324

<210> 6510
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-E4

 <400> 6510

 ttccagggtcc acggggctgg tggaggctct atggttatca tgttgcgaaa atccagtttt 60
 tccctacaac aaaggaatat attttattta actacaatgt ttgttgaaaa acatttagaa 120
 tggtaacccc atctcaatcc caattaataa tcaataaccc cacaatttaa ttaagtaaag 180
 tgatgagatc aacatagtaa ttcaagcacc agacactcaa gatgtccata accgggggaca 240
 cggctaccat cattagttaa tacactctgc agaggtttgc acacttttcc ccacaagact 300
 cgatctcttg cattgtattt cacgcactgc atggtgtttg agaaatggat gatctagaca 360
 cagtctttcc gaagaggtcc ccttaaccga tag 393

<210> 6511
 <211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-F6

 <400> 6511

gggtccacgg ggcactcgca tgccacgatg ctgactgtga tgaccattaa gctgatactc 60
gctctttctcg gcgtacgcat cacactagcg tgacttgtga agatatcaag tgcagcatgt 120
aacaggggca gttagcctgt tctggaccaa tgagtgtatga gtaatctgct gggatattgt 180
tcaggcggtc atgtgtatga ctcaaaataa tgagtgtgtt tcctttccac acttagcgat 240
ataaa 245

<210> 6512
<211> 461
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-002-Q1-E1-G1

<400> 6512

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tcaagctaag gaacaccgac actggcgagc tcatcatgca cctggagtgg gttaacctcc 120
ccccaggcat gtcgcggtga tttgatttga tttgcagagg gaggccagct attgtctgcc 180
ttttgtgatc gtaatgttgc ttcctctata tatgagctat gaaaataatt aagcgatgcc 240
tatctcattc ttacataac acccaccgta atgatttgtg gatctcacca ggatggtgcg 300
tatataatat gagcaacgtc gtggtgagat ccgcagatca tcacagtggg tgctacgtaa 360
ggcatgtgat agacttatgc tgctgggggt aatgcttgc ttcagttttg gttctgcata 420
tgttgtatgg ctatttttat acaaaaaagt atattttgtc c 461

<210> 6513
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H6

<400> 6513

tcccgggtct acggaggaag aagatggctg gcgtctccct ggcgcatgac tccgctgaat 60
aacattccat tgcgataata tttgagctgc ctgccatcag tgtgcaagcc atccagaaga 120
tcctgtcggt ctcgctggct ctgcaattgt tc 152

<210> 6514
 <211> 272
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H8

<400> 6514

cgggtcgacc gaaagcgaca acggacgata aacaggggtgt cgtactctcc tcccagact 60
 ccactgatgc ttgctgatct ccacaacctt acaggggtct acaaaacaga ctttcccaca 120
 atgccaaacca atgcgcgacc aaggaaggct tcatctgtgc tgaatgcttc ttacaagggc 180
 ttcctctaga tggctctcca taacactgag acggatgttc agacctagca tctggatggg 240
 tagtcattct ttgtagtcgg gatgggacca tg 272

<210> 6515
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A1

<400> 6515

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 catgatatta caaaatggta tctcgctagc ctttcttaag accgcaaac ataaatgcag 120
 agcaccttta aagatcaagg actgactaaa cattgtgatt catggtaaaa gagatccagt 180
 caagtcatac ccaatataaa ccaaaagtaa tgaatcaaaa tgacagtgtt ctctccagcg 240
 ggtgctttta ataagaaggg tgatgactca acataaaagt aaatagatag gccctttgta 300
 gagggaagca gggatttgta gaggtgccag agctcgattt tgggatagag atagaataac 360
 attttgagcg gcatactttc gctgtcaatg cgacaactat gag 403

<210> 6516
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A2

<400> 6516

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tcagcgaaaa tagccgaacg aagatgtagt gcagcggatg aaggttaaac atagcaaaga 120
 cgatcatcaaa ccgcaggacg atcgtacccc cgatgtcgcc atccacaaag cccttgccct 180
 ctggcacctt ggccacgaaa accgggtatg ccacatcctt ctctctgaga cgccgcttct 240
 ccaaagaaag aacactgtcg tgcagactcc gcatagcacc ggttgcagca ttgagcatat 300
 ttggtggttag catcgcccta cccgccacat gcaccctcct cgagatatcc tgcggtgaag 360
 gtggcccgctc ctgagcacgg atcgtactcc gtgcgggctg gctcgcaccc ttcgtag 417

<210> 6517

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A3

<400> 6517

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 ttcatagttc ttgttcctcc acggcggttg atccgctgtt gtatctgatg ctcaaagtag 120
 atgtcatgtg gcggcgccct cccgtgctgc gaaaccgaaa ctgacttggc ctgagtttcg 180
 tcgttgttcc atgctcccggt ctatcctaga tggtaggtaa tgcggaaca caggggggatg 240
 gtggggcagt gttgttacca tatgatccaa ggggtacctt ttctttcttc atgctgaacc 300
 ttgtactgtg tagcttctat gctggtgttt catgctagtg attttttagca gtaaattgcat 360
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<210> 6518

<211> 113

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A4

<400> 6518

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 ctgttggttg tggatgatgt gttgctgttg ctgttgctgc ttcgggggtt cgc 113

<210> 6519

<211> 89

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-A5

<400> 6519

gctgatggtg ctgttgttgg tggatgatgct gttgctgttg ctgatggtac tgttgttggg 60
 ggtaatgctg ttgcagttgc tgttgctgc 89

<210> 6520
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-A7

<400> 6520

cccggtcga cggggagttt atccaggttc gggccgcaag tgatgcgtaa taccctactc 60
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 agttcgaatc ctctccagt acgcctcggg cctcctttta aagccaaagg ggtcgccaca 180
 gtggcacaca ggaggtggaa agtttgtact gtatacaagt ctatcgcttg gcaccgtagg 240
 aaaaaacaca tttaatgcgc tgccgacgtg cctcttact ttactgggga cgacaaggaa 300
 gctcgtccca tccgccgccg ctctgtctcg ctctgacgcg cgtccaggct gactaggcat 360
 gcagcgccat gctggttggg tgctga 386

<210> 6521
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B1

<400> 6521

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 agcaccttta aagatcaagg actgactaaa cattgtgatt catggtaaaa gagatccagt 180
 caagtcatac ccaatataaa ccaaaagtaa tgaatcaaaa tgacagtgtt ctctccagcg 240
 ggtgctttta ataagaaggg tgatgactca acataaaagt aaatagatag gccctttgta 300

gaggggaagca gggatttgta gaggtgccag agctcgattt tgaaatagag atagaataac 360
 attttgagcg gcatactttc gctgtcaatg gaacaactat ga 402

<210> 6522
 <211> 348
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B11
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 tactagcccc catatggcag catcagcagc aaccgcacta tcagtggcat cagaaaggac 180
 aagaagcatt ctcaccatag cagcatcagc agcagtaaaa gagataagaa agcttcccat 240
 cgcagtagca atggtggcag cagcagaact gacactagtg atcctcaaca tcggaaggca 300
 tatggcagca gcattaccag cagaactgat actaatgttc ctgaatat 348

<210> 6523
 <211> 357
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B12
 <400> 6523

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 acttctgact cacacacagt gacaccgcac cagagaagtt caaggaagag ccactacaag 120
 tacaagcccc catatggcag cagcagcagc agccgcacta gcagtggcat cagaaaggac 180
 aagaagcatt ctcaccacag cagcatcagc agcagtaaaa gagataagaa accttcccat 240
 cgcagtagca atggtggcag cagcagaact gacactagtg atcctcacca tcggaaggca 300
 tatggcagca gcattaccag cagaactgat actagtgttc ctgaatatca taagtta 357

<210> 6524
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B3

<400> 6524

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acattgaaat cctcttgaac ctttagggaa tgccgctgca gtctactaaa gaaatcaaac 120
agacccaact gctcaactac aaatttctta ggattaatct gtcgcacaca tgcacctcat 180
accgagggtta aataattcaa aatgattgac gaagctaaaa tctaaagaca acttaagatt 240
actgaaaact gcccaaaaca ataatatgac tgaattgtta gatggaacca aaaaggaaat 300
tgtatttatc aagtttatta atctgcatga actaagacag tctccgatat tcaagaatgt 360
agtggctctt gatttttaat cagagataac aaatgaccag atgcgtacaa t 411

<210> 6525

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B4

<400> 6525

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tcaactacaa atttcttagg attaactctgt cgcacacatg cacctcatal cgagggttaa 180
taattcaaaa tgattgacga agctaaaatc taaagacaac ttaagattac tgaaaactgc 240
ccaaaacaat aatatgactg aattgttaga tggaacaaaa aaggaaattg tatttatcaa 300
gtttattaat ctgcatgaac taagacagtc tccgatattc aagaatgtag tggctcttga 360
tttttaatac gagataacaa atgaccagat gcgtacaata gagggaagga gaagatactc 420
acgtgtgtag cgcgcttgaa ttt 443

<210> 6526

<211> 188

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B7

<400> 6526

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 ggcagcttct caaaacgcag aaactgcaac accaaaaaca ccagaaaatg gagacagaga 180
 atacccaa 188

<210> 6527
 <211> 172
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B8
 <400> 6527

tcgacgggac ggtaccaatg ctgctgctgc tgcagatggg gctgttggtg gtggtaatgc 60
 tgttgctggt gctgatagtc ctgttggtgc tggcgatcct gttgctatta ctgtcgtctc 120
 tgcaccgact tatcaattca gtgatcagtt atctcaacta acatgaccat tt 172

<210> 6528
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-C1
 <400> 6528

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 cattttattt tgtttttctt tttgtttgaa taaataccaa gatcttaaatt tcttaaattg 120
 tagagagtct tcacatagtt gcataattat tcaactactc attgatcttc acttatatct 180
 tttggagtag tttgtcattt gctcttgctg ttcacttata tctttttaga gcacggcggt 240
 ggttttattt tgaagaaatt gttgaaatct catgcttcac ttatattatt ttagagagtct 300
 ttagaacagc atggtaattt gcttgggtta taaaattagt cctactatga tgggcattca 360
 agatgggtat aataaaaact ttcattgtaga gtgcattgaa tactatgaaa ag 412

<210> 6529
 <211> 161
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C12

<400> 6529

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ggggcgcccc ccaatgtctt cgaaacggtg ttggccccct ggtcttcac cttatccaag 120
aattttcctt aatttttcca aagggtttcca acgaatttca a 161

<210> 6530

<211> 75

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C2

<400> 6530

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gctgatcgtg ctggt 75

<210> 6531

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C3

<400> 6531

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ctttagggaa tgccgctgca gtctactaaa gaaatcaaac agaccact gctcaactac 120
aaatttctta ggattaatct gtcgcacaca tgcacctcat accgaggta aataattcaa 180
aatgattgac gaagctaaaa tctaaagaca acttaagatt actgaaaact gcccaaaaca 240
ataatatgac tgaattgtta gatggaacca aaaaggaaat tgtatttatc aagtttatta 300
atctgcatga actaagacag tctccgatat tcaagaatgt agtggctctt gatttttaac 360
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<210> 6532

<211> 358

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C4

<400> 6532

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 ggatggcaat gaggtgttct ttgcacaa gagatctacc cagctgaaga agctgatgaa 120
 tgcctactgc gaccgccagt ctgtggatat gaaagctatt gcattcctgt ttgacggtcg 180
 caggctccgt gccgagcaga cccctgatga gcttgagatg gaagatggcg acgagatoga 240
 tgccatgctc caccagaccg gagggcgct cctccacgc gcctagaaga agccgttgag 300
 agtctgctt gttgtcggc tacaagactc tgattcatca ttagagagca catgaacg 358

<210> 6533

<211> 420

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D1

<400> 6533

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 ccacctctta aagaattctt ggtattgtga tacttctcac cctcaccatt ctttcttggt 120
 ccgcgtgttg attctaaccg ggataccaac acgtgaacca tgctgcttg attctgtact 180
 tctagcaacc ctattgcttt gaagttaatg gtcaacattt catccttaga ccattgggta 240
 ttgaatcacc attctaacat tgatcctgct acctaagccc atatttcggg tgcaccttct 300
 aaccagtgat taattgtgta tgtttccctc gagtatacat cattatatca tttgatctgt 360
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<210> 6534

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D3

<400> 6534

ttcacgggct cacgggcaaa aacaaagggt gtccaaggaa ccacaatagt attccaagca 60
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ctactttgta aggggagaag gtttcttact gctgaatfff catccgttaa tttcgtttgt 180
ccatcacggt aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaataaat aaacataaaa 240
aaaaaatcaa aaaacaaaaa aaaaaatcaa cccccataaa aaaaaaaaaa aataaaaaaa 300
aaaaggggag ccccaaaagg ttcaagcctt acttcccctt aaatgcaatt tcaaaccctt 360
ccaaaagggc ccccaaattt aattccaggg cgtcctttt aaaaagtcct taccggg 417

<210> 6535
<211> 360
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E2-E2
<400> 6535

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aagcagtaaa atttattgaa agttgacaac cataccattg gccaggagc cattccagaa 120
agaaatttat aagggaagac cagaatcaca tgccaatata cgtcctgga cctcctttaa 180
gaatgtgaac cccaataagt aatttaagtc aaattaatga cgtttgacaa cgaagacaac 240
ataatgatat aagtttggtc aaaatcacac acaaagttac tagcacaaag agaccctgtc 300
gttgcaacgg gagagaaaac atatcacaca ctcttaaacc cgaaaacatc acccagcact 360

<210> 6536
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E2-E4
<400> 6536

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ttccctacaa caaaggaata tattttatft aactacaatg tttgttgaaa aacatttaga 120
atggtaaccc catctcaatc ccaattaata atcaataacc ccacaaatta attaagtaaa 180
gtgatgagat caacatagta attcaagcac cagacactca agatgtccat aaccggggac 240
acggctacca tcattagttt atacactctg cagaggtttg cacacttttc cccacaagac 300
tcgatctcct gcattgtatt tcacgcactg catggtgttt gagaaatgga tgatctagac 360

acagtctttc cgaagaggtc cccttaaccg atagatagggc cggtacacct acaatcccct 420

acatctgcta acccatcatg cg 442

<210> 6537

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E6

<400> 6537

agtaccagtc cgtacattcc gggtcgacgg gtagattcaa atttccatta aagaaatgca 60

tggagcactt tccaagaaat aaagtcaaata taccttatga atctatcatg cgggctactt 120

ctgaatcaag tgccaaagat ggcactccgt tagattaacc ttccgcttta ggccaaccta 180

ggggcggttaa aataatagcc ctagttggga ggcaacccaa ttttcttcat gtcctttgtt 240

ttgggtccctg tttagtgtta aattttgttt ccactttcta tttagatgtg tttttatctt 300

ttaattagtg tttgtgccaa gtagaaccta taggataaac tatgatgata gtttatttga 360

ttctgtgaa aaacataaac aattcaataa atcacagaga cgtacttttg tattgattct 420

ttttgtgtgt gatcaataaa caaattgtcc 450

<210> 6538

<211> 105

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E7

<400> 6538

gggtaaattcc aactttcctc gtatgacgtg catggagcac tttccaagat ataaagtcac 60

agttacctgt acaatctatc atgcgggcta cctctgagtc aagtg 105

<210> 6539

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F2

<400> 6539

gtcgacgggt aggcaattgc tctagtactt ccattatatac ttttagagca tggcgggtggt 60
 tataaatagt tgcactctca tgcttcactt atatcttttt gagagttgat aatagtaatg 120
 acaattagtg tgggttataa atttggctct aatgtgatag gtattcaagt gggatataat 180
 acaaaccttc atgtagatca ctgaaaatga taagtttgat tccttgcaat agtttgcgat 240
 ataaatgtgg taatatgcgg gttgtgctag ttagtaattg tggtttagta agaataattg 300
 tgtaaggtt cgtgattccc gaagcatgca cgtatggctc ctggttatgc tatgaagttg 360
 catcatgatt tattattgat tgtcatcctt atgagtggcg gtcagggatg agcgatgggc 420
 ttttt 425

<210> 6540
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F3
 <400> 6540

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 cactgcagag agagaatgtt tttcctgaga gacctgatca accggaatgc atatactaca 180
 taaagactgg agattgtaaa tttggtgcag tttgcaaatt ccatcatccc cgtgtgcgtt 240
 cacagcctcc ccagactgt atcttgagcc caatgggtct tccattacgc ccaggggaag 300
 agctctgcaa gttctattct cgctatggca tctgcaagtt cggcgtaaac tgcaagttcg 360
 accacccgat gggggctccg atgggggtct acgcgtacgg ctactccgcc tgggggtcgc 420
 ccaacgcgcc c 431

<210> 6541
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F4
 <400> 6541

gtcgactgcc cggatgccga agccttagcg gccttcaagc acagtgtctg agatgaatgg 60

ctcgccaaac acctcggcca ggaaaagccg aggacaatgg cagccttaac aagcctcatg 120
 acccgctttt gcgcggggcga ggatagttgg ctagcccata gcggcaccag tgaccagga 180
 acatccgaag tcagagatgg caacggaaat ccgtgacgca ataaaaa⁴caa gcgtcgaaac 240
 aatgaaaaca gccagataa cacgacagtc agtgccggat tcaggggctc tcgaccgggt 300
 caacggaaga agccatttaa aggcagtaga gatggaccgt ccagcctgaa taagattcta 360
 gacaagttat gtcagattca tggcaccccc gaaaaacctg caaatcacac ccatagtgag 420
 tgctggggtt 430

<210> 6542
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-G8
 <400> 6542

ccgggtcgac ggggagcaca agaaggacgg cgagcacaag aaggacgggg agcacaagga 60
 gggcatgatg gagaagatca aggacaagat cagcggcgac ggccacggcg acggcaagaa 120
 ggacggcgac cacaaggaga agaaggacaa gaagaagaag aaggacaaga agcacggcga 180
 gggccacaag gacgacgacg gccacggcag cagcagcagc gacagcgaca gcgactgagc 240
 cagctccggc cgcgctccgg cagcagcgtg cagtgtaggc gagatcgatg aacgcttggg 300
 agaagtgtgg catacatata tgttgcaggg tttggagcgt gtggtagcat atgtatgtaa 360
 tgcgtagcat gtctcatgga tcttgtgatg taaaataatt acccggtgc actgcacggc 420
 acg 423

<210> 6543
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-H2
 <400> 6543

ttgctcaagt ttaatagtaa ataatttata tagcctctgt tttggttggt ttttttgtgt 60
 ttaattagtg tttgtgccaa gtagaacgtg tgggaagact tggggaaagt ctttttgatc 120

ttgctgtaaa aaacagaaac tttagcgctc acgagaatct atgccatttt tatttggaag 180
 gtgatattta gttattatt cttgaagatg attaacagat aaattactca cttccagaaa 240
 tttattttat aatttttggg gttccagaac gtgcgtagc tacagattac tacagactgt 300
 tctgtttttg acagattatg tttttcttgt gttgtttgct tagattgatt aatctatggc 360
 tagtaaaaga gttttataac catagagaaa tttggataca gtaggtttaa ca 412

<210> 6544
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E2-H4

<400> 6544
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 aacaaacaat atggtaaag cacaagcata aacatggcat gatgcacaaa caagtatgat 120
 gcatgtccgg tttaatgagg catggcatgg caaagtgcaa caaacaacac taaaaattaa 180
 gtggagctca atatgcaacg agttgcatat tgacaaaact tcacaacatt tatttagttt 240
 gctctctttt aggtacgcaa taatattaaa tgttgtaaa catggcaaga ggtgaagcaa 300
 gagaaaacta cctatctagg caagttttaa tgaggtcggg acaacanaca acaatttccg 360
 gaaaatcctc atatgcaatt tatgaattag ctactgttct gcccaaaa 408

<210> 6545
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-H8

<400> 6545
 acaagggtgc gtactctcct cccgagactc cactgaggct tgctgatctc cacaacctta 60
 caggggtcta caaacagac tttccacaaa tgccaagcaa tgcgccacca aagagggctt 120
 catctgtgct gaatgcttct tacaagggct tctcagagat ggtcttccag aacaatgaaa 180
 cggatgttca gacctaccat ctggatgggt attcattctt tgtagtcggg atggactatg 240

gtgagtggac gccaaacagt acgggttcat acaacaagtg ggatgccatc tctcgcagta 300
ctacacaggt cttcccaaga ggggtggactg ccgttctggt ct 342

<210> 6546
<211> 73
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A1

<400> 6546

tgttttgtca gcgtgtcaaa ccttaaatac aatctgttaa tcgtggatca gatttggtac 60
cacattgggt tca 73

<210> 6547
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A11

<400> 6547

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gttttcagtt gaagaaccga ttgaggccgt ggcaaaaaga gaagagctgg agcaccttgc 120
catgatttgc agatctgaag ctgatgcaat ggggaggatc actgctggaa ttctccgtct 180
gcttaaactt gataagtctc ttgggcaggg aaccatcgaa cagctgagga acctaggaag 240
tggaagcctg gacaacattt tctcgcctag caggttcagc aggcacaaca gttttggcat 300
cgtaagcacc cctaggaccc ccaggagccc aatggt 336

<210> 6548
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A12

<400> 6548

gtcgacgggg aagaagatga agaggaagaa gaagaagaag aagaggaaga agaagaagaa 60
gaagaagaag aagaagaaga agaagaagaa gaataagaag aagatgaaga tgaagaagat 120

gaagaagaag aagatgaaga agaagaagaa gaagattaag atgatgtaga agaagttgta 180
taagaagaat gaagaagaag aagatgaatt tgattatgat gatgttg 227

<210> 6549
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A3

<400> 6549

ggtaaagaaa aagatcaatg atgcaggaag gaggaccaag gccgagatga tgaagactag 60
gataaggatc accttgagga agaagaggac gagtaagagg acgaagtcga tgacctcgag 120
ctgaacttga catctacgac gactccgttg agacagctca gcgtgcgaga cttgacgagg 180
ttgaagcaag ccataaagag tgcgatcgtt aggatcatct acgggagaaa gcgtgaggac 240
cagtcaaggc agagtagaag aagaatcggc tgatgaagac gaagagtctt caatagaaga 300
ggccgagtcg ctataccgga tgcaagaaga tcaggtg 337

<210> 6550
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A4

<400> 6550

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ccctccgacc tttcccaaaa aaccttgga atccggtggc ataaaaggac caaggaaagc 120
ccaaaggcaa tgaaccatca aaataaactt tccccgaaca aaatttcaat caagcttcaa 180
aaggacgaaa cataacttac aatttggaag caccaattgg atcgtgatgt tgaaaccctt 240
aaagcaaaat ctaacatcgg tagcaatcgt acgtttttga atcgcagtc gatcgaatgc 300
agtgcacctg aagaattatt cattaaagat cagtcactga ctaatgaaaa tgtggacaag 360
attgtcgggt acgctgtcag ttatcatctt aagcacaata aagtcgaaac etc 413

<210> 6551
<211> 400
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A7

<400> 6551

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gcctaggcct gagctggaca tctacaccga ccccgctcag acggctcagc gtgcgagatc 180

taccaggtt aaaccggcca tgaagcgtgc cttcgttggg gtcattctac gaggagagcg 240

tgaggacgaa tcagagcacg gtaacgagac cgctcgtctat tccggcgacg agtcttcgac 300

cggagagacc gagtcgctat accggatgca agacgatcag gtgaggggtt gttccgatgg 360

cgacagtatt ccggaccccc caaggccaga tcgaccgggt 400

<210> 6552

<211> 297

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-A9

<400> 6552

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gtaggaaatg gcgcgatgga tgggttctag gagtttttct tttggacggg ggatgtacga 120

aactgacttg cgcgctctc tccgctcgtg ggactcgggg aaacagtgtt ccccttcgaa 180

ctgttgcct gtaggttttg gactagaatt tggaagattt atatagagaa aatgcactgg 240

cggacttga acttgaaaag aaaaatataa caaatctaa aaaaaaaaaac gcggccg 297

<210> 6553

<211> 429

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-B4

<400> 6553

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aggcatgttc aaccaataat ataacaaggg aatcaattt tttccgggta aaactaaaac 120
aataatgcc aagaaggtaa aagttaaggg aagggtttta tccgaaaaaa ttgcaaattt 180
tccccaatat aactgcaacc aaaagctgct gccgttggtt ggtgttaaaa tcaaagttac 240
tgccagaatg gaattgtatc gcctggaaat caatcttttt tgtttctcca aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa acaaattaaa 360
tttatataaa ataaattaat ataaaaaata tcctaaaatt aaaattaaaa aaaaaaaaaa 420
aagggggccc 429

<210> 6554
<211> 176
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-B9

<400> 6554

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gatgtggact ttgaagtaat tctatataat tctgagagcg taaccattt tggttgcaaa 120
aactgggaag catthttgcaa gatgtatggt tttgatgaag gtatgcttat caccat 176

<210> 6555
<211> 276
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-C1

<400> 6555

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tttttgctct agtgcttcat ttagatcttt tagagcatgg tgggtggattt gttttaaaga 120
aactattgat ctctcatgct tcacttagat tgthttgaga gtcattaata gcatggtaat 180
ttgcttaaat attaataac ttggtattca agatatgtga aactttcttt tgagtgcgtt 240
gaatactaag ataagtttga tgcctgaaaa ttgttt 276

<210> 6556
<211> 321
<212> DNA

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gtctccatct tcaacgccac caaagtgttg gtggaccacc tgtccatggg taattgcat 240
gacggcatga tcgacgtggg ggccatgtcc acggccgtca ccgtctccaa caccacctg 300
gccaccaca acgacgtgat gctcttcggc gccaccgatg ggaagganga ngacaagggtg 360
atg 363

<210> 6559
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-D6

<400> 6559

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aattagctaa gtgaacggcc gatgaataaa cactatcact gccatgataa agaggattac 120
cataggctgg ggccaagtgg ctacatgggtg gcccggccta cgcgggataa ggctgagcaa 180
gagatgctgg atgcacgggt cagtccagtt acattgagct ggctccccag gtgcaggact 240
tggttctatg tgcattgggg agcgttggcc ccaacgacag ccaagggttt gaacaacgca 300
agccttaaag gagccacact aaaattactt gttgcaatag aataggctca aacaagggtt 360
ttc 363

<210> 6560
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-E3

<400> 6560

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agtgggatag attggttaga aaaggccatc gctcgtcccc gaccaccact cataatgaag 180
acaatcaata ttacaattgt gtcacaactt catcacaag cggttcacca tacgtgcatg 240
ctacgggact cacatacctc aacacaagta tttctactaa tccacaatca ccactagca 300

taactcta atcaccacct ttatatcgca aaactattgc acggaatcat acatatcata 360
 ctcagcgatc tacaatttga tgtacgattt tatgactaat catgtgattg accaattcct 420
 gtcattctctc catat 435

<210> 6561
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-E9
 <400> 6561

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 gcacatcgcc gcggtccggc ccttttccat tgcacaacga catatttttt ttcactgcac 180
 cgcccagcca tctcatcttc cctcaagatc ttgtatgtcg tgttgcgaga tcaagtaacg 240
 tctccccacc aaaggaattg agtatggagg aggcgaggac gtgttcatct cccgctccgg 300
 cgagattcag ttctgctctt ggggtttccac gacatcatga agttcctttg tgtagacaag 360
 cacctcagca ctctagatcg ataatcctaa tacttcaaag ccaaggagta gaaaaactga 420
 aacgacg 427

<210> 6562
 <211> 87
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F3
 <400> 6562

accctaaagt agagtcgtag tacgctctct cactcagcag cttcatccca gctgcgaatc 60
 ttgtgcacat tggatattca ctcatat 87

<210> 6563
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-F4

<400> 6563

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cggctcgggtg gtgtctgtgc gcgtgtgccg ggacgtcaac accaggatgt ccctaggcta 120
cgcgtacgtc aacttcagca tccctgccga tgctgcaagg gcattggaaa tgctgaactt 180
cactcctgtt aatgggaagc ctataaggat aatgtattct aaccgtgacc ccagctcacg 240
taaaagtggg gctgcaaata tatttatcaa gaatcttgac aagtcaatag ataacanagc 300
gctctatgac acattttctg cctttggaaa cattctttca tgcanagttg ctacagaaat 360
gtctggagaa tccaagggtta tggttttgtt cagtatgagc aggaccaatc aacacagaat 420
gcaatcaatg agctcaatgg gatgcttttg aatgac 456

<210> 6564

<211> 282

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-G11

<400> 6564

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tcgagggatg cctcgccgca ctgtgctgct gctggatctg cgagatgtgc tgcgactaac 120
cggccggccg gcgaggccgc tgctggctgg cacaagacct cgggtgctata gtaccacga 180
ggaggaggag cgtatgcgta tacagagaga gaattgttct taatttcagt gcccgttgtt 240
ttaggttcta tacagtatat actcctaagt tgatgcatgc at 282

<210> 6565

<211> 311

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-G3

<400> 6565

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tcctcagtgg gcagtcgtan gtgacacctt tcccgctcngc tgcccgttcg acgaatgcaa 120

cgatcaacttc aagtacttca aggagaacct gactaccaca acccgagatt caacaccaag 180
 ttccgggtct actccgagng gtgcgggctg gacaacgtgc tcatgtcatg gggccatgac 240
 gactacatgt gcctgggtgc caaggagaac aagaacaccc ttccttccgc anggctgttc 300
 atcatcagat a 311

<210> 6566
 <211> 104
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-G4
 <400> 6566

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 catgatcctg acggtgaagc cagacaacat ctgcagcttc atct 104

<210> 6567
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-H12
 <400> 6567

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 aaagcctaag cttggggatg ccccggaagg catccctctt ttcgtcttcg tctatcggtg 120
 actttacttg aggctatatt tttatgcacc acatgatatg tgttttgctt ggagcgtctt 180
 gtatgatttg agtctttgct tttagtttac cacaatcatc cttgccgtac acaccttttg 240
 ggagagacac acatgaatcg gaatttatta gaatgctcta tgtgcttcac ttatatattt 300
 tgagctagat aattttgctc tagtgcttca cctatatatt tttagagcac ggtgggtggtt 360
 ttattttata gaaattattg atatctcatg cttcacttat att 403

<210> 6568
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-H6

<400> 6568

gacgggaggt tcaagggaga gaagcgacgg agttagaagt tgtaaataatg cattgttgta 60
 tcgcgacctg aatgaaataa acgaaataat gctcttggtc aatcgtcaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaagttag cccacaaaaa aattaaattt aaaataaagt gaaaagaata 300
 ttaaaaacca ctaaaagggt ccactaaat taaattaaaa gggctttatt aaaaaactgc 360
 aaaaagggaa aaaccttggg ggaaacaaaa taaaaccctt ataaaaaaaa cccctttt 418

<210> 6569

<211> 302

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-A1

<400> 6569

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 caaagccatt atgagtatat atagattatt gtataagggt acccaataga tgaagaacta 120
 attcatcagc tcaacctaac ctgggtacaa agctaattca tcagctcacc agtgatcatg 180
 cgtgttgctg aatatctcat ctatgtgctg gttgtgtaat gagattaatg tgggaataca 240
 tcatgggcgg agtcaggatt cgaaaaanaa aannnannna aaaaaaaaaa aagcgggcgc 300
 tc 302

<210> 6570

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A10

<400> 6570

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acggtgttcc atgagacgtt catggcagag taccgtgact aaactgggtgt aacatgtgtg 180
ggattacatg caagcctcat ggattttccc taggcgtttt tgcccgcgtt gacagcagta 240
tcctgtagat gagacaaaat aaagcaaata catggccttg gtgtgtgata ctatatcaga 300
ttaccagtct gatgcctttg atggtaaatt ggcaactgag aatttttatt tcaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaagcg 420
gccg 424

<210> 6571
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A11

<400> 6571
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cgatggatgg gttctaggag tttttctttt ggacggggga tgtacgaaac tgacttgcg 180
gcgtctctcc gctcgtggga ctcggggaaa cagtgttccc cttcgaactg ttgtcctgta 240
ggttttggac tagaatttg aagatttata tagagaaaat gcactggcgg tacttgaact 300
tg 302

<210> 6572
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A12

<400> 6572
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aaaatccccg cccccttggt tcgcggtcct ctggttggtt gtaatctcca ggcaaacgtt 120
cggtttgggt tgtgctgcc cttataacgt tgatgtccat cgaggccaat ttccggtggt 180
ttgtcctcct cggttcggt gacgttgga ccgtcttctg aacctccctg ctttggttta 240
agtcccggt aatctatctt gctttgact ctgacctga ttgggtccag gctaaacca 300

tcatgctctg attgccaata tgttttatgg tcttgggcta accattttta acccaaatgc 360
cga 363

<210> 6573
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A3

<400> 6573

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acgacgacga cgacgacgac gacagggcggc cgcggtacaa aaagcgcgac gacgacgact 120
atgatgagag gaagccgcgg tacaagaagc acgacgacga cgatgatgga cacgatagga 180
ggccgcggta caagaaacgt gacgacgacg acgatgatga cgatgacaga aagccacgtt 240
acaagaagcg ctacgacgac gacgacgatg atgatacgaa gccacgttac atgaagcacg 300
atgattatga tgacgacgac gatgatagga agcagcgtcg cggaacaac cgccgccgcc 360
acgatgacga tgactgatta tgacatgagt ttaagctgac gct 403

<210> 6574
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A5

<400> 6574

cgggtcgact gcacacagca ccgtcatacc atttgacgac aacataaact tccacaaggt 60
tatcgcggtt ggaattgcaa ttggagcggg tatgcatacg gttgttcacc tgacctgcga 120
cttccaaggg ctggtctcct gcccaagtga caagttccag gagaagctgg ggcccttctt 180
caactatggt caaccaacat ggggaactct gttcgcgagc actccagggt ggactggtat 240
cctcctgggc ctcataatgt cattctcctt tacactggcg acaacctcct tcaggaggag 300
cgtcgtgaag ctgccatcgc cactgcacca cctggctggc ttcaattcct tctggtatgc 360
ccaccacctg ctggtgtttg catatatcct tctggtgatg cactoctact ac 412

<210> 6575

<211> 335
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-004-Q1-E1-A9

 <400> 6575

 ttcacggagc cgggtgtacta tggcgtatct cttgtcataa gggcaaatta ctttaaaatg 60
 ttgggaaaga gctcctgggt catttgattc cagtgttgta ggaaatggcg cgatggatgg 120
 gttctaggag tttttctttt ggacggggga tgtacgaaac tgacttgcg gcgtctctcc 180
 gctcgtggga ctcggggaaa cattgttccc cttcgaactg ttgtcctgta ggttttggac 240
 tagaatttgg aagatttata tagagaaaat gcaactggcg tacttgaact tgaaaagaaa 300
 aaatcaacaa aacataaaaa aaaaaacgcg gccgc 335

<210> 6576
 <211> 328
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-004-Q1-E1-B1

 <400> 6576

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 cggaaggcat tggcgcatc atggtttaga tatgaaagtt ttggacaccg accggaactc 120
 agtcgagagc ttatatatga aaactagtga gagagagaag actatattta tgcaattaga 180
 agagaactat atacattgtt tttcccctaa gctcaataag gtctgtgtcc tttgtggact 240
 gcgtttcttc tttgtagaga cagaacatat aatactgagg attgcagtca aatggaaatt 300
 aaattcaggt ttgatacttt aatatacc 328

<210> 6577
 <211> 265
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-004-Q1-E1-B2

 <400> 6577

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agccaactca acttcggggt cctgtaatgc aagcatgcat gcacaaataa atccttcaag 120
 ttcaagggcc aagatttga ccaataattc aactccttgg ttccaaataa cccaatggat 180
 aattaaatcc aatacaacca aaatccaata acctttaaat tgccccatta tacccaaaat 240
 gatgttttcc acgagcacat atgat 265

<210> 6578
 <211> 334
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-B3
 <400> 6578

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 aggtgtcagt atgcacgcac acgtccctga tttggagcac gcctctggcc tggtaggatt 120
 ctcgctctgc ctgcacctca agggcggttcg tctatctgtg tcatgctcgg gacgatgcac 180
 taatgcaggg tgtggttctt cagatcttct tttgtctttt cttgggtatgt atatctctga 240
 atcttgtgag ccgtgatttt catgctgccc attgtgtcat gtataatgat tcttcttatt 300
 atttttgaat ggcataatta ttcttattga ggcg 334

<210> 6579
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-B4
 <400> 6579

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 aaaattaacc ttggctttta agttaaccac aaccatcctt gcttaataca ccttttggga 120
 aaagcctatt tgattagaat ttcaagaata cccaaggtgc ttcacttaaa ccttttgagc 180
 ttgatagttt ttgctctagt gntcaccta aatcttttag agcacgggtg tgactttatt 240
 ttgaagaaat tactagtctc tcatgcttca cttatatatt tttgagagtc ttttagaata 300
 gcatgggtatt ttctatgggt ataaaattgg tcctagaaag gtaggcaccc aagttgggta 360
 taataaaaac tatcatanga agtgaattgg atgctatgat caatttgata attgataatt 420

gtttggagat atggaggtan tgatataaa

449

<210> 6580
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-B9

<400> 6580

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atgaacgagc ccagatgcat caccgatccg tccggttaaca ctctgcagcg ctggatccag 120
gagatggctg ggtacgtgaa gtcgatcgac aggaggcatc tgctgaccgt cggcaccgag 180
gggttctacg gcccgcagag cccaccggag aagctcagcg tgaatccggg gcactgggtc 240
aacaactacg gctcgcactt catccgcaac tccaagatct ctgacatcga cttcgctctc 300
gtccaccttt acccggacac ctggctgctg caccggaatt tggaagagaa gctcaagttc 360
gtgacgcagt gggtagctc ccacttcgag gacggcgaca cggagctcgg cggcaagccc 420
gtggtgctca 430

<210> 6581
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C10

<400> 6581

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acaaaggtag aatgcaatcc gctcccccaa gaaaggccgt taatttaaca atccgctggc 120
aacggaaagc caacctcccg taaattcctc gccgtccttg ctggccactt tcgacagcct 180
tgacatcttg gacgcctgca atggcctcct gctctgccgc tgctggaagg ctgctgatcc 240
cctggaattg gattatgttg ttgcaatcc caccactgag aaaatggtgt ccttcctctg 300
catcgactgg tccagcaaag tgagcgtcgc tcgcctcgga ttgaccgg ccgttacttc 360
ccacttccat gtattcgagt tcatag 386

<210> 6582
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-C12

<400> 6582

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gggcccaaccg gaagttgaag gtaccggtgg gtggcctccc aatcaatcaa ggaaacaatt 60
tggaatggct aacgggggggt aatggttaac cggaatcaa taaggaattg gtgacaaaaa 120
aaccattaaa ggcattagaa ttacctaagg agcaaaacca aaccttgtgg aggatcccat 180
caaccctatt ctgcacatt gcttcgatg cgacgcttaa gccattgggc cactttgctg 240
aagcacccaa tgctcatagt tatccgcta tatgtgccg ggagtatgtg gaacaagagc 300
tctcgcgat caatctgaaa gggaagggtg cactttangt gcacacagac cgccgattaa 360
tctggtgact tgggtgactg ttggtctgcc ttctatggtc agaatgcgaa ttgcgataat 420
ccaagctgat 430

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<210> 6583
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C2

<400> 6583

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tggtcaact aaaaatttta aaacaacggc gggggtttaa tttgccaaaa ccaatggtcc 120
cccaagcctc aactaaaata atttgagagt cttttaaaac aacaatggaa ttgctaaggt 180
ttaaaaattg ggcccagaat gatgggcatc caagtttgggt ataataaaaa ctatcataga 240
aagtgaattg gatgctatga tcaatttgat gcttgataac tgttttgaga tataaaagtg 300
gtcatgttag agtcatgcta gttgggtaat tatgaatttg agaaataccc gtgttggaagt 360
tggaagtcc catagcatgc acgtatggta aaagttgtgt aataaattta ttgcatgggg 420
tgctcttttg attg 434

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<210> 6584

<211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C9

<400> 6584

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 cctcctgtct gtactcgcag caccggccac gtggaggccc atctgtcccg gttagtataa 120
 gaaccgggac gaaaggccta ggcattggta acgacccttt agtcccgggt ccccaaccgg 180
 gacagatggg ccttatgaac cgggacaaat gacccttttt ctactagtgt tacaaagcca 240
 gtaggtcaca ctgaattttt gatgtgatat ggccacagct atcatgttgt aatatcttct 300
 aacctgaaca cgatttatac aacttgaatt taaaatgtta cattaacgga tacaaaaatt 360
 agctgatatt ccctgtaatt ttctcttttc tttccaaaaa gggtgtatgt ttgcaagcac 420
 ttctgcttat tattaactgg ta 442

<210> 6585
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D11

<400> 6585

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 tccaacccca caaaaccgga cccggcaacc ccgaacctgc cttagggtt aaaaggccaa 120
 ccaccgatg aaggagaact ttttcaagga aaccttaaaa ttgaaaaaaaa tggactttta 180
 gggtggtatca aaaaggtagg aacctccggc aaaattgcta ctgcaatttg gcagctttgg 240
 ggtttgcggc ttacttacac tgctgtttgt gtctctgact ttttctgctc tgagtttaac 300
 acaaaaaata tgggtgctgc tagtgctcac tggactcgca gctagcgtcc gttgccat 358

<210> 6586
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D2

<400> 6586

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gcacggactt caagcacggc gcgaacatgg cgatcacggg cgcgacggcc atggacgcgc 120
ccttcttccg cggcctcggc ctgtcggaca agatctggaa caacggggccc atcagcttcc 180
aatccagtg gttccagcag atcaccgcca ccgtgtgcgg gaacgactgc atgcggtacc 240
tgcgggactc gctggtggtg ttcggcgagt tcggcgggaa cgactacaac gcgatgctgt 300
tcggcaacta caaccggac caagcgagca ggtaccaatg tttcaacggt tcgaacggag 360
tgccgctagc taaatgaaat cctgtccgcg ctatagcctg atttttcacc ggcatatagc 420
cgatttgat gagtagtacc gctact 446

<210> 6587

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D4

<400> 6587

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agatcaaggg accacaaccg tgaccgctac aaaaaccgga cccgtgacag aaagaggccc 120
tattaccagg gaggtagagg gtcggactat ataggcgggt cctataacag ccggagggat 180
tctgaaaggg caaggcccac agacaggaac ggtggtgatt tttcaagaac aggagaccg 240
gggaggatga ggagcaggtc tcggtctccg ggcattcatg gttattaatc atttcaagtt 300
atatgagact cgtgaggtaa acattatgct cctttgttta ttcattcagt cgcaatgtct 360
gggtgttgtc atgattaaat ttaaacctta ctctgctcta gcagctcttt gttgaaacca 420
tacct 425

<210> 6588

<211> 238

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D6

<400> 6588

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caccgggatg accatgagga gagatccata gatcagcacc gtcagtgtg taatcaccgg 120
atgcctgtca cgctgatgtc cgattcacct tgaggtacag ggtcgcactc tectggctgt 180
tcctatcact gcctgatgga ttctcatggg gcaacgctca aagacacgac cggttgtg 238

<210> 6589
<211> 308
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-D9
<400> 6589

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gacagttaca cctactttcc cctacatctg ctagtctacc actgtaagag ttcacatgac 120
ttaatcaact atgctagatc ccatagtagc ttgcggctgc acacggaagt ttctagcatg 180
aataatttca tgatcccttt gagcctgggt ggcggtccat aaagaaaacg accaatcgct 240
ggaataccca ggtgcctcaa tccaccaga tgtgtgttaa agttgccacc ttaaataaac 300
tattaaat 308

<210> 6590
<211> 319
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-E10
<400> 6590

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ctcagaagag aagtccagct gcgggcaaac ccaagatttc caagattaag aaaccaaag 120
atgaatatga tgatacaaag gaggaaaaga aaataaagaa ggaagttggt atcaagaaag 180
atgaaaagaa ggctgctggg gtgaagaaag anggggctgc tggggtgaag aaggagagga 240
aggtgtatga attgccaggg cagaaacatg atcctcctcc tgaaagggat ccattgagga 300
tattttatga atcgctcta 319

<210> 6591
 <211> 314
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E11

<400> 6591

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ccgggtcgac aagaagaatt ctgcaatgct tgtgaggata acgagtgtta gaatgcgaga   60
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cttactctta ttattcgctt tgctatatgg gatggtaaata ctgagtgact tacctatagt  180
ggagagacga cgatcaaaac cttgtttgaa ccttaaaaag gtacaggtat tttttttccc  240
ttgtacacgg cagttgttgc caaccgtagg ttaaacggtg aggttcaacc caaacctttt  300
cctgcaggag aaac                                                    314
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<210> 6592
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E12

<400> 6592

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aattccccgg gaaaatgggg gctttcctcc aatccttggg gccttggggt aaccggaaaa  120
acccggaatg gattgccggc acaattggcg ggaatttttg cagtagtccc tttcgtgctc  180
aagggcaaaa gaatgctgcc gttctttttt ttgagagcga atgcgtcctt tctggtgacg  240
ctgggaactg ggaagtcgtc aatccagatt cttaacggcc ttattctgtc atgctggaag  300
tcggcaatcc aaaccacat gttcctcacc atatttgtca tgtccatagt tgtactatat  360
acagttcatc catgtgaata acacaatcga ttatcctaaa aaaaaaaaaa gaagaaagga  420
gaaaacg                                                    427
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<210> 6593
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E2

<400> 6593

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ggccaaatcc caaggtcggc ccggttaggc ccccaggttc cccaagacca caggaggaag 120

ggtggtggct ggtggtcggc gacagctcca ccaagcagct gctggctatc aagaggggtca 180

ccctccagaa gatggcccggt gtgaagctcg agttcaccgc cgccgcgag ccagggacga 240

aggactacat gatctacctg atgtcggact cgtacctcgg ctgcgaccag gagtacgagt 300

tcaccatcga catcaaggaa gctggaggcg actaatttca aacacccaaa actctttttt 360

atactggggtt tttgctctta ttagacaat attatgtgac ctggaactta tcatcttttt 420

gtctgtaatg taacacctga 440

<210> 6594

<211> 422

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-004-Q1-E1-E9

<400> 6594

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catcctaata aagctaata accatctctg gaacttcaca acaccaacaa atggaagcaa 120

gcaggacgaa acctacactg agcaacctgg agtctttcca tgttggcaag caccacaatt 180

tccgtgtacc gacctgccag cgaagccccg gcacagcaag tatccctggc acagcaagca 240

ccgattagca ttcaggcatg agtaaccaag tgtgtccgag cccaggagcc caaatggccc 300

tgcgcaccga gagcccatga gcccaaattg cctgcgcac cgagagcagc ccggactgta 360

tgttcacagc cagaaactat tatactggaa ctcaattgcc aacaaacctc ccaagaacaa 420

aa 422

<210> 6595

<211> 205

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-004-Q1-E1-F1

<400> 6595

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 tgataaacia gccaatggtc cccctagccc aacaaaaagc tctgctttgt ttaagtcggg 120
 ccagacataa atgggcctcc ccaaagaagt tacgaacaga ccatagtgtg agaaatccta 180
 taaagtttct ttattttaacc tgcg 205

<210> 6596
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-F11
 <400> 6596

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 ggaggagaca tgtgtcggag tcccgggtgac cagcaagcga agagccgatg ggacagcgtc 120
 gtctgtgctc cgcgaccacc tagcggggag gagctagatc ggggaagggtg ccgtcgccag 180
 gtggtcgagg aatcgggcag caaagtgccg aaaaaaacgt ggagctggag aggcctgttg 240
 ggaggaggaa acttacattc taatgcatga ggcgccggga gggagggtgct gagcggttat 300
 gatcggcggt aggatcctgc gccatgtgct atgggtggta ggaccctttc tttccttttt 360
 tgtatgacag ctggcaaaag gtgcgggaca ccgtgccat atttaggtgt gtgctccgga 420
 acgcta 426

<210> 6597
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-F4
 <400> 6597

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 gggcatattt ccatcaggga atcgtgcttc aaccagtctg gggattccaa gaggaagtgt 120
 aacccgacgc actaccggga gccgaggttc tacaccaagg tgtttaagga atgccactcc 180
 tatgaccaag aggggaattc ctttgagctt tctctggtaa cttccaagtg cattggagct 240

tatgtgaaaa gcaagaagaa ccagaaccag atatgttggc tgtgggagaa ggtcaagtgc 300
acagaagaca aaggctttca gagattcctg gacaatgtgc agtaciaaatc cactggaatc 360
ttgcgttatg agcgcgtgtt tggggaaggt tatgttagca ccggtggatt cgagaccaca 420
nangagtttg tggacaagct ggacct 446

<210> 6598
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-F6
<400> 6598

gacgggcaaa gtgagctttt ctcttgtaa cgtgccgcgc cgtgattttg ttagtgttct 60
aggctcgcgt ctctagcaca gtctagccta ggaccagcac agtaccgtcg ttgagcgttt 120
attcaacttt gcatttctga attgattatt gctgaccatt ttgctacca tattataagc 180
cttcccagct ccacatacat ctacgtcgtg cggttgactc tccctagtaa tcgctctatc 240
caagctttga gagtttttga ctacaacgat tgccgatcac cgcctgctgc tgggtaagaa 300
ctggtgaagaa tttgagattt gcttgacgga tttgtgacac ccaccaccac ctcttggtag 360
tagtctgtag gattatattc ttgtgtgtct ctattgctgc taaccatg 408

<210> 6599
<211> 416
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-F9
<400> 6599

ccgggtcaac ggggaaggcg aagatgtctt ggaaaactta cttgaacaac cacctgattt 60
ccaacatcaa gggcaacaac ctgcctccg ccgcaatcct cggcaacaac ggcaccttct 120
gggccc aaag cgccgatttc ccgtcgttca agccggcgga aatggccaac atcatgaagg 180
acttcgacga gccggggacc ctgccccga ccgggctgct actcgagac gccaaagtaca 240
tggtcatcca aagtgaacct ggcgccgtca tccgcggcaa gaacggcgcg ggaggcatca 300
ccctgaagaa gaccgggcag gcgctggtgg tccgcatcta cgacgagccc atgacccccg 360

ggcagtgcaa cctgggtggtg gagaggctgg gcgactacct ggtagagcag ggcattg 416

<210> 6600
<211> 362
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-G10

<400> 6600

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ctactgctaa atgacctacc attaccgcct ttcacaaaga acccactact gctagggtgct 120
agcatgtaaa attagacatc anaaatacat tcatcatcaa tgatcctttt gtgtagaatc 180
tgaattgtca atatgaatcc tctactgggtt aagaaccggt gaggattcct attgcgggca 240
cagatcctac acatagagtt caatgaacac tactangaaa aggctgcta gtggcgccacc 300
tgttttggct actaatggcg cactacangt gcgccactag catcacgcca ttagaatttt 360
ta 362

<210> 6601
<211> 198
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-G11

<400> 6601

caaagatatc atctgttcct gtctatccag agaccaattc nggctcatta tgcattttg 60
caatgcaaaa cttatctggg accgaatctc cgacgtctat gaaggttatc caaacagtca 120
tgatccttgg tttgaagact tcaangaatc tctcaaaacg atgactttcg aaccagaatc 180
atcatcttct gcatcatg 198

<210> 6602
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-G2

<400> 6602

cggggtcaacg ggcgtgcttt tgtgttgatt attttggtg atgatcaata aacaaatttt 60
ccaggacttc ctattttggt aggattttta gagttacata agtttgcggt agtttagagat 120
tgctacagac tattttgttt ttgacatatt ctgtttttcg tgtgttggtt gcttattttg 180
atgcatctat ggctagtaaa atagtttata aaccatagag aagttggaat aaagtacctt 240
taacacaaat ataaataaag aatgagttca ttacagtacc ttatgtggtg gttttgtttt 300
ctttcactaa cggagcttat aagatttcct gttgagtttt gtgctgtgaa gttttcatat 360
tttgggtaaa gctttgatgg actatggaat aaggagtgcc aagagcctaa gcttgggggtt 420
gctcaatgca cccaagatat tcatcaatag ca 452

<210> 6603

<211> 347

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-G3

<400> 6603

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tctcacattg acgaggataa tcaatgagct atggagatgt ccatcaattg atgtcaacat 120
gaggagtang gattgccatg caacggatgc actagagcta taaatatatg aatgctcaac 180
aaaagaaact agtgggtgtg catccaactt gcttgctcac gaagacctag ggaattttga 240
ngaagcccat tgtacgaata tacaagccaa gttctataat gaaaaattcc cactagtata 300
tgaaagtgac aacataaaaag actttctata tgaagaacat ggtgcta 347

<210> 6604

<211> 286

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-G4

<400> 6604

cgggagcgcc gagccggcgc cggcgcccgc cccgtcttga actcgcggcg agaaataata 60
ctaataccca ttgcacgtg ttgcagtaac gtagtttttt tcgacgcaga gtaacgtact 120

tcttgatggt ctttttttct gatcgacaag cttttctatg gtagctatat gttcatcttg 180
 atctgtgctt cttttacttt acatcattta ttagctttgt gatctccttt tgtcattgtt 240
 gagatattgt ttagtgctaa aaacaaaagg aaatttgagg aagacc 286

<210> 6605
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-G8
 <400> 6605

caagtgatt ggtttgcggt ctttttcaca tttactgggt tttccagctc tgctgccgcc 60
 tgccacactt tgtaatgcaa ttttttttgt cacatcggtc atataatcag gattctagcc 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaatagg cggtagaaaa 240
 agattaaaac taaactttca cgtgcatcaa aggtcaaagc ccatacaaaa tggtagccata 300
 ctttcattt 309

<210> 6606
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-H10
 <400> 6606

ggtatggaca accttcaagg aggaaggcgg ccggccggac gccatcatga tcctgacggt 60
 gaaccgagac aacatctgca gtttcatctc ggagaccaac cccgggacag tgcggtcgtg 120
 ggagaccaag gacagccagc tgacgatggt ggcggacgac ctgaagccgc gggcgggtgt 180
 gacgtgcccg gagaagaaga tgatccagca ggtggtgttc gccagctacg ggaacccgct 240
 ggggatctgc ggcaactaca cgtttggcaa ctgccacag cccaaggcca aggagattgt 300
 ggataaggcg tgcgtgggga agaggagctg cgtgctggcc gtgtcgacg aggtgtacgg 360
 cggggacctc aactgcccgg 380

<210> 6607
 <211> 383
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-H12

<400> 6607

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 caagtggaca ataaccggga aatggggaca agttttcaaa atccaggaca attttttaac 120
 ccctggacgg aattggaatc cgggaaaatt ttcaaattcg gaaacaaatt taaggcaatt 180
 caaacattttt ccaaaaaacaa ggacaattac tgaatttaag aacaatttaa accgattggt 240
 aacactttttt aaacaatgtc acaagaataa catatttatt aaatgaaaaa aaatagaata 300
 gatgaacatt tttttagaag tttctggaac aaaattttta attctcaaac atttttttat 360
 ttaatacaaa ttttttgaaa tgc 383

<210> 6608
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-H4

<400> 6608

cgtaaaccctt tttaacggcc cctaattgat acacatcccc aagtttttgc aaccaccgag 60
 gaggaggctg gcattttggc atggggccacg tcagaatttt gcacgtacct ggacaccagg 120
 ggcttattac caagggcggtt atccggcccc tcttcataaa gaccgaatac cttagggagt 180
 gttcggcgtc tcgagttagg gcttatatgc atcagctctg aatcatgtct tcggtcaaatt 240
 gttggggttg cccgactcct gtgttttgct gccttacggt ccgctctatc ggctaagacg 300
 acaccagaag aactactgcg attgtgcccc gggtcgtcca ggcgagcacc ttagtagaga 360
 aagccgaaaa ctgactatca tgatat 386

<210> 6609
 <211> 264
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A11

<400> 6609

acacactcct tgtgtctttg tcacacatgc actctgtcct cctccactca ccctctctct 60
ctcacacaca tgggcttttt gcaacatcta gcaagatgcc catgcgttgc acggcacatc 120
aagatgcatt tgtctgaata atttatcttg taggggaaat agtctacttg tggcatgtcc 180
atctttcaaa agttggctta ggggtgtgagg tagcttctta gccatttgcc ttcccagcag 240
ttgtaccgca tgaatgtcga ttgg 264

<210> 6610

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A2

<400> 6610

ggtcaaaaat taccgggtcg acgggagcac aataaaaacc aaaaccaagg cttaaccgca 60
gttccgcagt tcgtgtgttg cttatattat atgttgctat tatattacca ttattaagtg 120
agggaggaat tgattagtgc cagtgtttga ttttgttctg tttgtcatgg tacgaggaaa 180
gatcaccaag tagataaggt ctctagtagc agtttggtcg tacctaataca gtacccttat 240
ttcattccga ctagtaagta aaaacttgtt tttccaaaaa aaaaaaaaaa aaaaaaaga 300
aaaaaaaaaa agaaaaaaaa aaaaaaagaa 330

<210> 6611

<211> 358

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A3

<400> 6611

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cgggagcaga ggggcttcgg ttaagaaata aataaagagg atcgggtgctc caccgtgctg 120
cggccgtgtg gtgttgggtg tgattgtttg cttgttgacg tggctgcatt cactggctgg 180
gcaccaggat ccgtaagata agataaatgt gtacgtacgt gctgtattcc tgaacttgta 240
ctgtgacgag cgagactcgc tttgtaacgt gctattctgt ttctacgtgg ctttcttcta 300

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat cggccgct 358

<210> 6612
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A4

<400> 6612

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caagatcgat ctatggatcg cgtgggcgcc ccatgatagc cgacgacaac cgtcgcgccg 120
gacacagtaa gtctggccgg gccgaacaaa atagacacat ctcttttgag ctctgtcatg 180
atatcgccca gtacagaggc gccgcacacc cactatgctt cacagatgaa gtaatggatc 240
atcaaatccc caaaggggtt aaaccctga atattgaatc ttacgatggc acaacagacc 300
ccgcggtttg gatcgaagac tatctctcc acatccaaat ggcccgcggt gacaatcttc 360
acgccatcga atatctccca ctcaaact 388

<210> 6613
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A5

<400> 6613

ccgggcgatg tgtcttagga agaagtgggg tggtggtgtc atgggctcca agtcgcaagc 60
gaagaccaag gccagggaaa ggcttatcgc aaaggaggct gcgcagcgga tgaactaagt 120
ttagcattgt tgaaccatat ctattctca tccttgagta gtgtgcaagc atactgtggc 180
agtttggtc cagttttgaa agtcattttt gtttgtctga aacatcttgg aaagaacagt 240
gtaagaatga agtatttctg ttt 263

<210> 6614
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B1

<400> 6614

gggtcgagct ccgcggacga ggtgcagcgc atgatggcgg agatcgacac cgacgggtgac 60

ggcttcatcg acttcagcga gttcatctcc ttctgcaacg ccaaccccg gctcatgaag 120

gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgat ccaggagccg 180

atccatctac gtacggcttc gtatatcaat ttcattgcaac tacctactcc ggtcccgatc 240

cagcctcagc ttcacctgag gccggcccta attttgtttg atcatttttt ttgctaccag 300

tagtaactag tgatgatcac tgttccatca tttatttatt ttatatcatc acatgtttct 360

tttctttctc tacctttttg tcgatcgctg gctccagctc gatccaacga ttcattgctgc 420

taattggttg 430

<210> 6615

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B10

<400> 6615

gggtcgacgg ccaacacgta gtagaaggca cctccggtgt agtagaagtc atcgtcgaag 60

gtggtgtctg gtcctctgggc tccaacatct gggtgcgaca accaggtaga agggataggg 120

ggaaaagagg gagaaagcaa ccgtgagtac tcatccaaag tactcgcaag caaggagcta 180

cactacatat gcatgcattg gtatcaactg gaataaagct atcatatgtg gactgaactg 240

cagaatgccg gaataagaga gggatagcta gtcctttcga agactacgct tctggcagcc 300

tccgtcttgc agcatgtaga agagagtaga ctgaagtcct ccaagtatca tcacgtagca 360

taatcctatc cgatgatcct ccctcgctg ccctgtgaga gagcga 406

<210> 6616

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B7

<400> 6616

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aactcaaggc ggcgactgcc atcgggtcaag tgtgggtcat cgaggctgct cgctgtgttt 120
 cgtcgcagct gcaggccgcg agatcagggtc gggaaggcgc cgcgcatga cgagtgagcc 180
 aattttcgga ttggaccata acaacgtgtt tcgggtctccg acgtctagaa gtagtggttaa 240
 agttttgaat ttgtatggca agaaccactt acgtaggtag ctgacacgca cgacagtgtg 300
 tttaactct tacttatgta aaagatatga attatacatg agttgcctcc acaatgagga 360
 attgcgatag tagatatggc aattatgtga tagaaaaaaa accaaaccgg ggaaccggcg 420
 ccac 424

<210> 6617
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B9

<400> 6617

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 gcactaatgg tgaaggtagc accagtgcc aacctcttgg cggacacctt cttggtttct 120
 ggcgagagtg ccattgtctt cttacacttg ccggtggagc tcgatggtgc gtccttgatg 180
 gtagcgcagc actccgaaga ggtgcgcttg ccggagtggg catcagaact ctttccggac 240
 ttggtattct tcttcgcccc gggagcttca acggcaagtg acttgcgatc tgttgagct 300
 gctgcttctc ggtagatctt gtcggcgagc ataagagcat ctttcttgtc gccagggaca 360
 gaggtgacac ttatcgggccc tggcatcttc agtatgttgt atgcatagtg ag 412

<210> 6618
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C11

<400> 6618

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 gaccaatggc agaaaccgca gcgatagcac caccaccaca accaatggca ccaccgcaac 120
 cagtggagga aaacgcaacg gcggcaccgt cacaaccaat ggcaccaccg caaccaatgg 180

cggaaaacgc aacggcagca ccaccgcaac caatggcgga aagcgcaact gtcgttgtgg 240
 tgggtgccacc accaccgcca gacggcacca cgacattcct ctgcctcatc ctgccttct 300
 tcacccctcc cctcggcggtt ttcctcaagt acaaagtga gattgaattc tggatctgcc 360
 tcacctaac attcttggcc tacgcgccg gcatcatc 398

<210> 6619
 <211> 176
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C5

<400> 6619

ggaagaatag gaggaggaag aagacgatga agaagaagac gaagaagaag aagaacgaag 60
 aagaagaaga ggaagaggaa gaatcagcag cagtatacga acacgaagac gaccaagagg 120
 aagcagagga acacgacgaa gaagaccacg aagaacaaga cgaagccctc cacgaa 176

<210> 6620
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C9

<400> 6620

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 cacgtgggat agaggtccca cttgccaaat gtgggaagtc tcagcttctt cacggccgtc 120
 acgccatgac tggattttta agccgcgtgg cgcaggtaca tgcacaatcg tgcgccgta 180
 aacaccgatg aaccatggtc acggcaaggc taaccacgca tccattaata gcatccatcg 240
 ctccctccca attaccaatg cagtcatttg aatggcctca cgacttcac ccttcctaga 300
 aaagccctat ggcgaggtgt ccccatcacc gaagtcagtg ctggagcccg acgacccgat 360
 tgatgccgtg tcacggatat ccgctatcga 390

<210> 6621
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D1

<400> 6621

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tacagtcttt tgggtggcgt acattttaga gacaaaagag ttataatgac tgaagggtcc 120
tttgacagtg atagcagcag aggatcatca cccacctat cacctcacct atctagagga 180
gatactgata caaacaggtt gtccaagata aagctcgggt cgaacatgcc aacaaaagct 240
ggattgacaa ttcgaaagag tgattgtgaa ccacagctta ttggagaacc taccggggag 300
ttgtacgatg ttatattgta ctttgggatt atagacatac ttcaggacta tgatatcagc 360
aaaaagcttg agcatgcata caagtcttcc caatatgacc caacgtctat ttcagcagta 420
gattcaaaac tg 432

<210> 6622

<211> 311

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D3

<400> 6622

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tccgaaatta ttaagtgtta gagagtcttc acatgggtcgt cacaatgtt cgactactca 180
ttgatcgta cttagactct catcgacta ctttattgtc gctcaaatgc aacacataga 240
tcgtcgata tcatgggtcgt aactggaata tgccgagatt tatcaactgt aatgtctcag 300
ctacatatcc c 311

<210> 6623

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-005-Q1-E1-D4

<400> 6623

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 cgggaacccg aacgtgtacg cgagcctcct tggggttctg tgggtcttcg tggcaaacag 120
 gtggcacctg gagatgccag acattataga tggctcgatt tcgatcatgt caaggaccgg 180
 ccttgggatc ggaatgttta acacgggcct gttcataggt ctacaggaca agctcgtcgt 240
 gtgccggcct ggacttacgg cgttgggcgt ggcgatgagg ttcgtcgctg ctccggcagc 300
 caccgcggtc ggagcgctac ttttgggact gcgtgggtgac cttntgcgtg ttgccatctt 360
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 cgctgat 427

<210> 6624
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-D9
 <400> 6624

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 aaaaaggacc ttcgaaatcc aattttatgt gtagcgcaaa ggagttgcga ttcctttctta 120
 ttcctataga acatctagta acaagaatat gaaatcgtaa atagcgaaaa attcttgtct 180
 tgcgcgggtct aagtctaagg aaataaaaaa attcgcttat acaatttcat ctacatcgaa 240
 tttatatatc agaatagcgg atagaggcat cattaaagga gtcagggtcta cttactttat 300
 gcttctttcc aattttatgg tggatttgat aagaaccctt atcgctttct tgataaataa 360
 tcgacaaaaa aagcgttttt tttatataac ctgcttggtt t 401

<210> 6625
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-E12
 <400> 6625

gggtcgacgg ccagctgaaa atagatacca gaaaagggtca gtggtgtttt ggagggcgcc 60
 tcgtctgtat gtattccatc tgtgtaagtt aattcatttg ggtgattggg tcggctgtag 120

gcggtatata tcaacacagt gggggatttg taatgtttct ggttttgtgt tccttgtag 180
atgaaataat aacttaactt gtttataaca tgctcctcaa ttttcttcct aacaaaaaat 240
aaataattac aaaaaaaaaa aaaaaaaaaa aaacaaaaat ataagaaaaa actaaaaata 300
aaaaaaaaaa attaaaaaaa aaagaaaccc taaagtttca acgaattaa 349

<210> 6626
<211> 431
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-E2
<400> 6626

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aacttcaaac aaagtgaacc aacttcaata agattgatag caactactca tacaagtgcc 120
tagagcatat atcaagcatt agaactactt ggaaccatat atatttgaca tgcaagctca 180
agaacatggt cactgtcggg gtcaaaaccg gcggatctcg ggtagggggg cncgaactgt 240
gcgtctaggc tggatgataa caggaggcag ggaacacgat gttttaccca ggttcggggc 300
ctcttgatgg aggtaaaacc ctacatcctg cttgattaat attgatgata tgggtagtac 360
aagagtagat cttacacgag atcaaggagg ctaaacccta naagctagcc tatggtatga 420
ttgttgatgt g 431

<210> 6627
<211> 359
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E3
<400> 6627

cacctcgac ggagaataaa agattagtga agaaagcagg ggcttttctg aaatttttgt 60
aaatctcgtt tttatctagt ctttctctgt caaacctcg ccgtcgctag gcagccagca 120
tcagcaatag tactactact actactagtg ccatttccgc cctgctctt tcagctatct 180
ccttttctcct ccataaacc cttgcctttt agctaaaaac ttaaatgttt aagttaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaac aaaaagaaaa aaacaaaaat aaaaaataaa 300

agaaacagga taaaccggaa gctctagagg tttaaagcta atctgcatgt gaatgaaac 359

<210> 6628

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-E9

<400> 6628

ggtgaaattt tagtgccata aaaatgtctc tcttctttga aacaatatac tctggcatgg 60
attatatcaa ggatcactat gtcaattcgt gctgtcattc attccacatc gataattaag 120
acgatcatac tgacatgatg cacgaattct ttatagatgt ttctcatatt ctgtacaaaa 180
tgtattcaca tttaatgggt cgatcaaggg ttgtcatgta atgaatcgtc caaggaaaca 240
gtgcatttga tgcttataga cgacaatttt gctccattaa tcctatttga ggatatcttt 300
tgctgggtatt tcgagatgtg aaaaattgtg tatgatcgac tctacaatgg tatccagccg 360
tatgatgact atttcat 377

<210> 6629

<211> 363

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-F12

<400> 6629

gggtcgacgg cgatgggaag aaggacggcg acgggaagaa ggacggcgag aagaaggagg 60
gcggcgacgc caagaaggaa ggcgggcgacg gcggcgacgg caagaaggac ggcgatggga 120
agaaggacgg cgacgggaag aaggacggcg agaagaagga ggagggcgac ggcaagaagg 180
acggcgggcg gaagaaggac ggcgacaaga aagaggaggg cgacggcaag aaggacgacc 240
agaagaagcc cgccgccgtg gccccgctgc cgttcccga ccacatgccg ctgccgcacc 300
acatgccgcc gccctacatg ttcaacgccg actacatgat gaaccagtac cggccggcgc 360
cgc 363

<210> 6630

<211> 421

<212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-005-Q1-E1-F4

<400> 6630

cggtcgacgg gtgattgtat tgtatatgag tacaaaatct acacttattg cttcctttca 60
 agttgcgtcg agcgagattg tctttagtta gcataactcc tcttcaaaga taccacatga 120
 aaatcttaac tttagtggca tcttcgattt ccagatttgt ttataattgt ccatttgaaa 180
 atgttgaata agtattatat atgttgaaga agtatttgaa aatgttgaat aaatattaaa 240
 aatgttgaac aagtatttga aaaatgttga ataagcatta aaatgttgaa caagtatgta 300
 aaaattgttg aatatgtgtt cggacaatgt cgaacgtgta tacaaaaaat gtttgatcac 360
 ttattaaaaa atgttttttg acatataaga aaaatgcagc gaaaacgaaa acaagcataa 420
 g 421

<210> 6631
 <211> 67
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-005-Q1-E1-F6

<400> 6631

aggtagagtg agctatgcgc aggcgaagg gttttggtga attttcgata attttgcccg 60
 tgagata 67

<210> 6632
 <211> 366
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-005-Q1-E1-G1

<400> 6632

tatcatatat cttttgagaa tgggaccag ggtgtattag atggatttat gattcagttt 60
 aacacgaaca catttgggtc tgcagccggt ggaccacttc aggttcctcc actccaacct 120
 gggtcctcag ccaggacgct cctagctatg gttttctccc agaatgtctc ccctggagca 180
 ccaaacttgc tactgcaggt tgcagtgaag aataatcagc aacctgtgtg gtatttcagt 240

gacaaagggt cgctccatgt cttctttggt gaacatggca aaatggatcg aacgggtttt 300
 ctcgaggcct ggaaatcttt acctgatgac aatgaatttt caaaagaata cgccacgttc 360
 tgtcat 366

<210> 6633
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-G10
 <400> 6633

gggtcgacgg caacttgtag atcaatgaat atgatatggt tgattccttg caatagtttt 60
 gcgatataaa ggtggtgata ttagagtcgt gctagttgag taattgtgaa attgagaagt 120
 acttgtgttg aggtttgcaa gtctcgtagc atgcacgtat ggtaaacgtt gtgtgacaaa 180
 tttgaagcat ggggtgttct ttgattgctt tccttatgag tggcggtcgg cgacgagcga 240
 tgggtcttttc ctaccaatct atccccctag gggcatgctg agtagtactt tgcttcgagg 300
 gctaataaac ttttgcaata agtatatgag ttctttatga ctaatgtgag tccatggatt 360
 atacgcactc tcacccttcc atcattgcta gcctc 395

<210> 6634
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-G11
 <400> 6634

gtcgtgttac cagtcgtgca cgggtgcgct ggtgggcacg ctcaagcgtg cctggaagcg 60
 ctccgccatc atctaaatcg tegtctcgt cttcagcgtc atcgtggacg ccgtcggctg 120
 ctgtgccttc aggaacaagc gccgctagct atacaacggt ggcggatagt gggatcaagg 180
 cgcgtacgcg tgatcgcgcg cttgtctcgg ttatttaatg cttggtttgg atggatgcga 240
 tgggtctcttc gtgtcattca tcttcgttgg cgttgtttct cttacgatgg tctgggtctag 300
 ctttgtgcat gcgag 315

<210> 6635
 <211> 411
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-005-Q1-E1-G12

 <400> 6635

 ggtcgacggg ctatgataga tacactgccg catacaactt ttgtgaaatt atcagttaca 60
 ctatgggcaa tatggtggtt tagaagaaaa gctattcacg aggagatctt ccagagccct 120
 gcttccacgc atcagcttat ctgtagcttc ataagggagc tagaatacat gccgggcaac 180
 cagcatggtt ttatgaagat ccatgtagac gctagcattg caaggaatca gaacaagggc 240
 gctgctgcag ccgtctgcag agatggcgat ggaaatttca tgggaaattc ttcattagtg 300
 atttatggaa ttaatgatgc tgcaacaacg gaagctatcg catgtcgtga ggccctttca 360
 ttggtggatg atttgatggt acaaagcttc gtaatagcat cggactcgaa g 411

<210> 6636
 <211> 409
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: LIB104-005-Q1-E1-G2

 <400> 6636

 gggtcgacgg gactgtatat gatgcagccg gaggggttttg tcgatcctaa gaatgctgac 60
 aaagtatgca agctccagcg atccatttat gggctggtgc aagcatctcg gagttggaac 120
 attcgctttg atgagatgat caaagcattt gggtttatgc agacttatgg agaagcccg 180
 gtttacaaga aagtgagtgg gagctctgta gcatttctca tattctatgt agatgacata 240
 ctcttgatgg gaaatgatat agaacttttg gacaacatta aggcctactt gaacaaatgt 300
 ttttcaatga aggaccttgg agaagctgct tacatattag gcacatcaagat ctatanggat 360
 agatcgagat gcctcatang tctttcacia agcacatacc ttgataaga 409

<210> 6637
 <211> 393
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-005-Q1-E1-G3

<400> 6637

gggtcgacgc ggaggttgag aagatgattg gcaggatagt gaagtggctg aagcccgggtg 60
ggcatatttt catcagggaa tcgtgcttcc accagtctgg ggattccaag aggaaagtga 120
acccgacgca ctaccgggag ccgaggttct acaccaaggt gtttaaggaa tgccactcct 180
atgaccaaga ggggaattcc tttgagcttt ctctggtaac ttccaagtgc attggagctt 240
atgtgaaaag caagaagaac cagaaccaga tatgttggtt gtgggagaag gtcaagtgca 300
cagaagacaa aggttttcag agattcctgg acaatgtgca gtacaaatcc actggaatct 360
tgcgttatga gcgcgtgttt ggggagggtt atg 393

<210> 6638

<211> 425

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-005-Q1-E1-G4

<400> 6638

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cgggtgtcgcg acgtccgggt ggaatcttag gagagtttag ctccattttt attagggatg 120
agttaagttt agttcgtgtg ccagtcttaa taaaaatcaa gcatctgtat aattaaggag 180
gctactgatt gttgtagcct tcacctgcaa tttatccgag ctttgaatga atggacttgt 240
gttcggaaaa agaaaaatac agtgctgctg gcttagagta gagtttggtt tctagtcgta 300
taatgcaatg tttacttate tcttgctctt agtttcatca tcagtaatga ttttattcct 360
cttggcggtc gcatcaggca tgnnttaata agatcgtatt ttatgggaag gagggagtac 420
ttttt 425

<210> 6639

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G6

<400> 6639

cgggcccgcg ggatagccta gtatcctagg atctatcggt tgataatggg atccaagggtg 60
 tactatatgg atttatgtgg catttttagca agaccacact tggatcatgta ttccgtagtc 120
 cagtttaggt tcatcgactc aaatgtgggt tctcaaggaa gattctctta acggtgggtta 180
 tctatcatgg tgtcacgcat gtcgaagtaa acttgctcat tgatgttgca cat 233

<210> 6640
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G8

<400> 6640

gacgggcccag tcgagcgcca cgccacgaaa ttgtcgatgg gatccacett cctctctcca 60
 cctcccactg acagtgccgc caatccatga gatccagtcc tggcgccctc ctctattcat 120
 cgccttgctt tgggaccgt caagatccat ggcataaggat cctgaccacc agcgccacga 180
 gtcattggga gatcctccct cggcttctgc ggcaccggcg agatcctccc cagcttatac 240
 ggcagtggcc ttctcctccc atggtggcct gaggaggagg ctccacctac cctgggtccg 300
 ctccaccacc acgacttgca tagctagatc accgcacggg ctgccatcag gcgaccacct 360
 ctctgtctcca gcgcattggc tcaccgttcc ccatgtgtgt gtcctctgtt gacct 416

<210> 6641
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G9

<400> 6641

cgggtcgagc cgaaggagca actcctccac gaggtcatgc gtcgttcgct tacctcggcg 60
 gagacggacg ctaggcgact ccagcacaag aatgtgatgg cgctttggct cgggatcgag 120
 gtgtcgaagc gccttgcgag ggagaatgag attgctaaga ccagggcaga gcaccacacg 180
 aaggagtggg accgcgccat ccagcgctc tccggtaca tctcctcgac gtcggacatc 240
 agcagcaccg gcacgaaaaa tgacgatgag gatcctccct ccgcggaagc ctacacacag 300
 cagatgtacc accgctccgg atactgcaaa ggcaagggcc cagacaagaa atggtgatct 360

ctgccccctc tagctaatat agtttgtatc cagtaatcta tcttgcaaa 409

<210> 6642
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H1

<400> 6642

tcgacggggc atatgtattc tatggtgggt gaacaaatta ctgttgagca attgacaaaa 60
ttgagcatag ttatgagaat atctaggtat gatcatgtat ataggcatca cgtccgagac 120
aagtagaccg actcctgcct gcatctacta ctattactcc actcatcgac cgctatccag 180
catgcatcta gagtattaag ttaaaaacag agtaacgcct taagcaagat gacatgatgt 240
agagggatag acgcatgcaa tatgaagaaa accccatctt gttatcctcg atagcaacaa 300
tacaatacgt gccttgcctgc cttactatc accgggaaag gacaccgcaa gattgaacct 360
aaagctaagc ac 372

<210> 6643
<211> 380
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H10

<400> 6643

gccataatgc atggcaaatt aagacaatct aaaggaggaa gaatggagat ccattttgag 60
gcacgtttta aaaggtcaca tgatgtctaca tagtcagcca agttagtatc agaagcagcc 120
agtgttggtta cgtgtcaagc acgtatcctc ccatcatggt tctactacag ggatgagaaa 180
cactactagcc agtttaacac cttccttgac gatttaaccg taactacagt tattccacac 240
actttgtaat cttgtcttgc acagtaccat accttcaata cttgtcatgt gatcactcat 300
attcattttt catcaaatga tgttcaagtt ggatccacta gatgctgcac ctatcaatgc 360
atgcactcat gtttttcagt 380

<210> 6644
<211> 425

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-H11

 <400> 6644

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 ctttggccta cccggcctcg gtgcctcttg ttggcgagtt gctgcggggt cgacacggcg 120
 tcccgaatgt cttccctata aaacaccata tgtatatggt aggtgaagtg tctaaagggg 180
 gatcctagtt tttggagttg ggatttttgg ttttcttacg tgcgatgcag ggagcagtc 240
 gggatagtcg cccgtaatgg ccaccatggc gtcacatag ctcaattgat agaactgtct 300
 gtctatcagc tccacgaata tgtccggatc ttcttcgagt acggggaccaa cggcccggtc 360
 agggtcctct ggttgtggag atgggctgtt ttctccctt acagcttttc acagtttctc 420
 cataa 425

<210> 6645
 <211> 374
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-H12

 <400> 6645

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 cattgaatag gtcaagcggg agcttttctg cgtgaaatac tccacacaga agtcatacgc 120
 atacctccca gtgcgctcaa atactgcaat tgcgatgcag catggcaacc cataaacatt 180
 ccactttcgg caagtgcagt catacgtctc aatgttgaca acattaactg agtcacgcga 240
 taccttgaat aaattaccat ccccatcact ttctgtgggc ataacatcga gtgagtgagc 300
 tttgctaact tcttctgca atttctggtt agctacaggc gttaatccgt caggccattc 360
 attacaagac tctc 374

<210> 6646
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-H2

<400> 6646

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gataaccttt tacaaagtaa agcaatggag aaaaatatga ttgccgtggc tagtgagatt 120
gagaggcttc ggggtgagct tgtaaagtct gaaaagcggg cactgctgt caccacggca 180
gcagctgtaa ctaaccttg gtatgctcaa ccgtacagca gttctgaggc aacatatgcc 240
acaatgtatg gcaatcccg ggcagcatat gcagcatatg gcagtgtga ggcaacatat 300
gctggaacat atgccaatc tgatgcttat agcaccacta atcaggctca gactcgact 360
gatggtaatc cacattacat gaccagccg gctcactatg cgcagtacga aggccagcag 420
cagcagcagc agcagcagca c 441

<210> 6647

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H3

<400> 6647

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cttcttgaga agctaaggaa caaaaggatg atgtttgtgg gggattcact gaacaggaac 120
cagtgggagt ccatggtgtg cctggtccag tctgtggctc catgggataa gaaaagctt 180
gtcaagaatg gatctctaaa tgtgttccgc cttcatgagt acaatgcaac gattgagttc 240
tattgggctc ctttcctagt tgagtcgaac tcagatgatc cagacattcg tagcatcact 300
gaccgaatga tcacgccaac atcgatgcc aagcatgcag caaattggat aggggtggac 360
tatttgatct tcaacactta catttggtgg atgaacaccc cgaacatgaa aat 413

<210> 6648

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H4

<400> 6648

actcaaaaaa tcaacgtcta cgagcatagc atagcagtat aagcataacg tagaagtaac 60

tcccaaggtt tgaatgcagg acagtaggtt cctacctcat caactacttc ccaataccca 120
catgttatca aatcctaacc atgcaatgtt tgagggtgaa actaatgcat aaaaactggg 180
tatgaaaggg atatgatcaa cgtgtgaact tgccttgtag tgttgatgaa gatgattcgc 240
actcataact cttgatagtt ctactcgtca cactccgttc aatctagtaa gaaagcatta 300
gtaaccacac ataagcaatc actcaaaaga ccgggaagaa tgaagaacac gattcgaaaa 360
acatcaaaac caagcaaata actcttgc 388

<210> 6649
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-H6
<400> 6649

ccgggtcgac gggaagctta atgattgttt tgagatatgg aggtagtgat attaaagttg 60
tgctagttga gtagttgtga atttgagaaa tacttgtgtt gaagtttga agtcccgtag 120
catgcatgta tggtaaactg tatgtaacaa atttgaaaca tgagggtgtc tttgattgtc 180
ctccttatga gtggcggtcg gggacgagca atgggtatatt cctaccaatc tatcccccta 240
ggagcatgcg cgtagtgttt ggtttttgat gacttgtaga tttttgcaat aagtatgcga 300
gttcttttatg actaatgttg agtccatgga ttatacgtc tctcaccttt ccatcattgc 360
tagccctttc tcacattgag agttggtgca aacttcgccg gtgcatcaa accccgtgat 420
atgatacgct ctttcacaca taa 443

<210> 6650
<211> 335
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-H8
<400> 6650

ttattgggct ttatgggaaa gagagcatag catgccactc actcccaagg cctagtccga 60
agtggactag ggggaacgga tgcgccccctc tttccttctc ttcacgtttc cctttccttc 120
tcacgtactc ctacgaggtg gaacggctcc tagttctacg aggaaagggg gaatccgatt 180

cccggttgga cttgcactct cctgttgctc accatagatc gggcccagcc ctcttgacca 240
ctacaccctt atatacctgg tcaatgggca tccatacac tcattaattg atctcctgat 300
ctcttaacca tgtgcggtgc cccctccac catat 335

<210> 6651
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-A11
<400> 6651

gtccccgggcc gacgggggga ttgattttcc tgcaggaggc gcggtcgccg agtctgattc 60
ggacgaggaa gatcagatcc aggtcaatgg aaaagcacc tcaatcgggt caaggtgcag 120
cgtgaagaag ttgcacgacc tgatttcctc atttgatgag gagaaacgac agtatgtagc 180
cgagatggag tttggggggc tgctagagct accaaagata acaaggacgg ataggcattt 240
cttgatgtct atcctaagcc acatcgatga ggaggcaagt tcaattacaa ttgatcacia 300
acgcgacatg caatttttgc atgaagatgt caaactgggc atcggcatac catgtggaac 360
tgctcctgtt cgccctccag accacgctgt tccggaggca gtggtgacac aga 413

<210> 6652
<211> 418
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-006-Q1-E1-A3
<400> 6652

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gcagcaacaa caacttcagc ggctacggcg gcaagaaggg cgctgccgac ggcaagaaga 120
agcacgcaa gaacgagcga tgggacaaca accatggcgc ggctcggag aagcggttca 180
agacgtgcc ggcgtccgag gcgctgcccc ggaacgagcc catcggcggc tacatcttcg 240
tctgcaacaa cgacaccatg gaggagaacc tcaagaggca gctcttcggg ttgccatcca 300
gatacagaga ttcagtgagg gcgatcatgc cggggctgcc cctcttctc tacaactact 360

ccacccatca gctccacggc atcttcgagg ctgcgagctt tggcggagcg aacaatca 418

<210> 6653

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-A5

<400> 6653

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ggaatagttc tatgtcacia aaatcaagcc caatcaagcg tggcacaggt cctagataca 120
cgggacacac gcacctagtg gagcggctct atatggcgcc ttaggcggca aatctcttcc 180
ctggcgctct cgccaagctc gcctgagcct agcccaacaa aggctagtgc atcggggcgc 240
agttctccta cgttcgctgg gacaatgggt gatcgggtcaa ccgttggcca tttggacttc 300
tgtaaaaaat gaatctgaaa aattgtacaa aaacatgaaa tttgaaaaga acatggattt 360
gaaaaaagta catatatttg caaaaaaaat gcaaatatga actaataaat tttgataaaa 420
ttc 423

<210> 6654

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B1

<400> 6654

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ggttttgagg gatTTTTGCA gtgggggtttg taggggtgcta tgccgcgctg ggtttgggat 120
ttgaaataaa acgaagggag atgtgccacg ctcttaaatag ccagtcttct gctctaattc 180
tgctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa agaagaggaa aaaaattcaa 300
agaataaatt aaaaaaaata aaaaaaaaaa aaagaaatag agataaaaaa aaaaaggggg 360
gcccccaaaa ggtttacagc ctcttttttc 389

<210> 6655

<211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-B2
 <400> 6655

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 gaaccttgcc tattgggtccg cctcggttga cgagcaggaa aatgggtctc ttcgtccctc 120
 gcccttggtg ccgtcggtgt tgccgacata atcgacaggc tagcctctga cttgccttgc 180
 ttgcatgata acgcaagacg tctccaccct tccaactttt aaccacatg gtggggcccat 240
 aaccacagt tccacaggat caaaacctga ctctcctgta ccccccggt ttccaaagtt 300
 attccccacg cttgacttcg tatgtaattc acgggtcacc ttctaatagc tctattctgg 360
 tatcagacgc tatacttact ctcggtgctc tgaaccctt tctcactctg gttcagactt 420
 cgagcaacta tc 432

<210> 6656
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-B3
 <400> 6656

gggtcgacgg gtatcatgaa cattatggtg ctaatttgag gcacatgtgt ggtaacagga 60
 tagtaagatt gtcccttctc tctttttctc gcttttttgg gccttctcat tttatggcct 120
 ttctctcttt gttttattcc tcaattggga caatgctcta gaaaatgatg atcatcacac 180
 ttctatttat ttacaactca ttgattacaa ctcgacacta aaacatagta tgactctata 240
 agaatgcctc cgggtggtgta ccgggatatg caatgagtca tcaatgatat gtatgaagct 300
 ttggcatcgc caagcttagg ctcttgccaa tccttgttcc ataatccatc agatctatca 360
 tgcaaaacgt gaaaacttca gaccagacca cttaacaaat catctcgtga tct 413

<210> 6657
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B4

<400> 6657

cgggatcatg atcatgagga atatatagga taataaggtg gtgtattacc accatgcccg 60
ttgagctgat gtttgtttca gctagagaaa tcgttacgcc cgctcataat tccttttttcg 120
acgctctgga gaataataac tactgggtata tcattctata tcaaagccgg cttgtgaaat 180
aaatgatccg ccgtcttgcc ttcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacggac 240
gcacaaaagg attaaaacat aaagtagacg taaataaaaa atcataacat ctacaataaa 300
gtcaacaaaa ttaaatataa atgaccgtcg ttttaaaaaa gtcattgactg ggaaaaaaaa 360
aagagtggcc ccc 373

<210> 6658

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B5

<400> 6658

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tggcgtgggc gacacgggtc ctgtcagcag tgtgcttctt cgcggcgggc gtcctcttcg 120
ccccagatgt cttcatcggc gaccgtccg gctccggcgc caccgccgtc acggccgcca 180
aggtgtccca cctcctctgc ttcgccacct gctggggcgc tgcgctctgg gctaccttca 240
tcggtggaat catcatgttc aagaatctgc cgaggcacca gttcgggaac ctgcagggga 300
agatgttccc ggccacttc acgctcatct ccgcctgcgc cgccgtctcc gtcgctgcct 360
tcgcctacct ccacccgtgg aaggccgcct ccgcgctcga gcgctaccag cttggcttcc 420
tcattctccg gct 433

<210> 6659

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B8

<400> 6659

gacgggctggg atcatgatca tgaggaatat ataggataat aaggtggtgt attaccacca 60
 tgcccgttga gctgatgttt gtttcagcta gagaaatcgt tacgcccgt cataattcct 120
 ttttcgacgc tctggagaat aataactact ggtatatcat tctatatcaa agccggcttg 180
 tgaaataaat gatccgccgt cttgccttca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaga 300
 cagaa 305

<210> 6660
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C1

<400> 6660

cgggtcgacg ggcacgggag gaaggcgac gacgacgacg acgacgacgg tggcgctac 60
 cggaagccaa agccgtccca cggcgacgac gacgaccggc ccagctacgg ccgcaagaag 120
 aatgacgacg acgacgacga tgagaggcgg tcgcggtaca agaagcgga cgacgacgac 180
 gatgatgaga ggaagccacg gcacaagaag tgcgacgatg acgacgacga cgaccatgag 240
 aggaggccgc gctacaagaa acgtgatgac gacgacgatg acgacgatga cagaaagccg 300
 cgttacaaga agcgcgatga cgacgacgac gatgatgata ggaagccacg ttacaagcac 360
 gatgatgatg aggacgacga 380

<210> 6661
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C11

<400> 6661

ccgggtcgac gggccgcacg acaagcgcaa gagcaaggcc tccatggaac agggggtgat 60
 ggacaacctc aacaaggcta cgccgcctac tgcaagcgtg aaagcaaagc cccgcagaag 120
 cttctgaacc cgatgggcca cgagtcaca gagttagtga tctcctttga ctgatttcgc 180
 taggatgata ctacatgagt tagaagtttg tcgtgccggg gacggaggcg agacggaggc 240

ttggcttgtg aagtgacgct tggatgcacg cgtaattttc tttacatttt ttgttctcgt 300
 tttgactttg aggatcgcg c cataattcctt ttgaactgtc aactgcattc ag 352

<210> 6662
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C2
 <400> 6662

gggtcgaccg gcaatgttga ataataattt tagtgatttg ttatagtaga aaatgataag 60
 tttttgcggt gggtttatact aacctatctc acgagttctt gttgagtttg tagtgaatga 120
 agcttttttg agaaatagag aaaccatgat atgagaggaa ttaaggagac acaaaagtgc 180
 aagcttgttg atgccaagg caccccaaga taatatttca agaagtctca agaatctaag 240
 cttggggatg cccagtagg catccacct ttcttcttca acaactatcg gttagtatct 300
 gttgagccta atttttcctt attcacatga gttgtgctat ccttgcaatg tcattttatt 360
 ttgttttgct tgatgtttga atacaatacc aagatctaaa attccttaaa gttagagagt 420
 cttcacatag ttgcaca 437

<210> 6663
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C4
 <400> 6663

ggttcacaca cttttgtggt ttgtctaatt gcaggtgtat gggacatttg tacaatccac 60
 atatgaagat aaggaagaaa gagatgttta ttgtctgtcc aaaaagttct ctcacgtcac 120
 ttttgccca agagaagata gagtccaagt ctctcacgtt ctggattcag attcggactg 180
 cacagacata cctgactcaa aacgcacaca agtttttcat acggactccg aattgggtga 240
 ttcttttttt gttggaaact agatttcgtg cactttccaa cccaattgga atcaccttca 300
 aattcgtccg gagcgttgag ttgtggacga aacaatctga tgctgcagca gaatccgagt 360
 caaactacaa gtccaaagggt gttacatcac ctccacttgg gccattggc cttgtacg 418

<210> 6664
 <211> 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-C6

 <400> 6664

 gggtcgacgg gtattattca cgtcatgggt tttacaagta caaaaacgac gtaacctaga 60
 tgaggtcaca acctgaatat agtccgtgtg gttatggagc actgctagaa accaagaggt 120
 gctgggttcg ataccatggt ctgcaagttt tttaccaacg agggaaaaac aagtcccgag 180
 cggaatcac ggataagttg caaaaatcct gccggcagga tttgagcttt tccgattaaa 240
 aaaatatgca tctagtgtaa aaaaaaacat tgtgctactt ttgaaaaatg tcaatagcat 300
 ttggaaaata tttgtgaaat tcaagaaaaa tcacgtgttt cagaacaatg ttcatttcca 360
 taaaatgttt atgcaatgaa aataaatgtt tgcataattt aaaaaaatcc atcgaataaa 420
 aataaa 426

<210> 6665
 <211> 403
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-D12

 <400> 6665

 attcccgggc cgacgggtcc ggagaaacaa ctctgcactg cgagcatctg ctgagcctgg 60
 agtcaggacc gaccatcgtg aaggcccga ccatgtggcg gccaaagggg gccaaagtccc 120
 aggaaacggc ggctctgtcg tgggtatgtt cggcggggac ggttcggtca agcccggagc 180
 aaccacccgt acgcgttctc ttctggaaaa aatcacacat tgcacatata tatggatgcc 240
 tataatccca tcatggcatt gcgaagggat gccaaagtta tatacatata catagaatgg 300
 aagtgtgtga aggtggaggg ggtcagaggg gtataggaga gcgatcagaa gccgagaagg 360
 caaattggtg ttgtaattat ctgagtttgt agctactgcg gtg 403

<210> 6666
 <211> 370
 <212> DNA

cctcgattat tgcggatctg ttaaacaaag aaggcatcat aaatgttagc ttcgatgatga 180
 tgtcatgccg gtttacagta accaggaaag atgatgacac gacggttcaa cgactacaag 240
 aagatdddga agacaaagat ttttgctaag gattgacatg aaccggttca aatcaatctg 300
 gggcctaattg tcggggatat tactactggg cgtaaaccgg cctacctggg ccgggttaac 360
 ttcattcagta gttcaatggt gttaaagccc aaagaggcag ataagggccc aaggcctaaa 420
 atcggtttag aacctat 437

<210> 6669
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-E5

<400> 6669
 aattccgggc gacgggaggc tccaaccttc ccttttcatg caaattdaat gataatgaaa 60
 ccttagcttc ttatgctaatt ggtatctatg attactatga tgtggaacaa atagaaaaat 120
 ttgttgcttt tatgtgtgct tatgagattg aatctatggt taaagcattt gacgattttg 180
 attattcggg ttatagacca gaaaattttg ctatgcttag atattgctat gaaaattatg 240
 aatacaatta caatattaat gcatttattg agaaagtctc ccctgtccaa gaagagacta 300
 atattttgca ggaagctatg gaagaagaaa ttgatgaaac tgtgagctca ttggatgaaa 360
 aagatgatga ggagagcgaa gaacaaaagg aggaagagcg gattagctac c 411

<210> 6670
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-E8

<400> 6670
 gggccgacgg gctatcttag aagaggtttc aatcgattat gatgagaaca aagttgctac 60
 ttatgataat tattgtgatg atatgtatgc tatacaaagt agtgatgatt atattaaaac 120
 ttgtcatgat tatgattacc ctttttctga atattactct tttaatgtgg aaacaattta 180
 tagtattcga gttttctatg atactccac tattccgaat gagaagaatt ttgcttatgt 240

ggagagtaat aaaatttcta tgcttgtaga tcatgaaaat aatgctttat gtaatggtca 300
tattgttgaa ttcattcatg atgctactga aaattattat gagggagtaa tatatgcttg 360
taggaattgc aataatatca agtttcctct ctgtgtgctt aaagttttaa agttatgttt 420
gttttgc 427

<210> 6671
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-E9
<400> 6671

taaggtctag aattcccggg ccgacgggcc gtttaagcat attcatattg tccctgggtg 60
ttcatatagg gtgaatTTTT ttggtttcca ataagtttcc caacaagaat aagcaatgaa 120
gtgtaagcca agtcctcaaa agattccaac ctgaagaagc caagaaccaa gtcctgtgtg 180
ggccaatccc caattaatgg cgaatcctaa ggtcaaccca agaatggcgg gcgatgttgc 240
gtgcaacccc taatccaaga caccaataat aacccttaaa ctaatcctca agtccaagac 300
attgataact tccttaaggt tgcctcaact cctgtggaca tttttgcccc taattgcaca 360
tgccacttac acgtgggacc gaccagtat aaagaaaaag aactctctgt cacacctcac 420
tctcac 426

<210> 6672
<211> 392
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F1
<400> 6672

cgggtcgacc ggcgggatca tgatcatgag gaatatatag gataataagg tgggtgtatta 60
ccaccatgcc cgttgagctg atgtttgttt cagctagaga aatcgttacg cccgctcata 120
attccttttt cgacgctctg gagaataata actactggta tatcattcta tatcaaagcc 180
ggcttgtgaa ataaatgatc cgccgtcttg ctttcaaaaa aaaaaaaaaa aaaaaaaaaac 240
aaaaaaaaaa acaaaaaaaaa aaaaaaacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaat aaaaaaaaaac aaaaaaaaaa aaaaaaaaaa ataaaaaaaa attttaaaca 360
aaataacaaa acaaaaaaaaa aaagggggcc cc 392

<210> 6673
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F2
<400> 6673

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aaaaaaaaa aaaataaata ctaacaaaag aatcaacaca ataaaaaca aaaacaaaca 120
aaacaaatcc tttttcgaag acttaaaaaa aaaaaaatta aataagaaac caatccataa 180
catcaaatc gtaaaaaaaaa aacaaatca aaaaacataa ccgccccccc caaaatttcc 240
acctttactt tcccgtgcaa cccaattaaa accccccccac aagtggcccc ccaattttat 300
ttcagggcct cttttttaaa aaattcgacc cgtgaaaaac ccctgttttt cccaatttta 360
ccccttttaa aaaaaacccc tttttccaaa tttggataaa cctaaaaggc cccccctttt 420
ttccccttcc ccaaattttt ccccc 446

<210> 6674
<211> 434
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F3
<400> 6674

gggtcgaccg gaagcggccg tcgatcttag gccactgacg atggaggacc tgaggcaggc 60
caaaaatcag gtcgccgcga gcttcgccgc ggagggcgct gtcatgaacg agctgaagca 120
gtggaacgac ctctacggcg aaggagggc gaggaagaag gagcagctga cctacttttt 180
gtagaaccgg aaggatgggtg gatgtgtcgt gttgggcaaa tcgctgaagc cttggcagag 240
catgagcata catatgttgg tgggaaaagg agagaggatt tcctgtgagc aaccgtgagt 300
taggatcttg gagtgaatgg actccttgag atgtgtggca gggggcattg gatcatgtac 360
gattctttta tacgaacaag tattgtagtt attcattatt atatatgttg tacctggttt 420

gttaacctgt gtgt

434

<210> 6675
<211> 453
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-006-Q1-E1-G1

<400> 6675

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ttgctgaatt aatgttgcca tgcacgcaca ggagttcgcc tgaatttcgc agtatatttg 120
ctggtgaatt aatcaaacag atgggaactg tcagtgaaca catcaaagca atatcacgaa 180
atggtgccaa acatgttggt ttagttcctt caggaaatga tgtttcacgc aacaaatcca 240
gtggtcgtaa aggaattcga ggtggaagtc caaatattgg caggcgagtc acggttggtg 300
atgatccaac tcctccttca gcatctgctc tgcaggcaat agtgtggctg cgctccaat 360
ttatcatcag gctgcttcaa gtaatcctgg cagatanggg catgaggcat acatttgctc 420
ctgcgatact aagcctgctt gcggcacgca taa 453

<210> 6676
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-G10

<400> 6676

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tcggtcactg ggaggatccg gtgctcgaag tctgacatct aagtgtatgg ttgtgtcttc 120
tcgcattcgc gttgatagtg tagttgtgat gttgccaga agaaaatatg agacacagga 180
agagccgatg agatgagata gtgatcgctc ctgttaatat cgtggacgtt cggaagaag 240
ttgtagattc tagtaaccga tctggcctag ttttggtcat cctagtgttg gccttgggat 300
ttttgcagtg ggaggatccg actcactgtt tcgccttga ccttcatttc ttcactttta 360
gttacattct ttttagcttt tacttggtt tttcgatgt acctttttat tcaacacatg 420
tccaagtttt t 431

<210> 6677
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-G12

 <400> 6677

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 ctttgatcac cagatatcgc ctactcttct ctatactgct tgcattagag tagtgtagca 120
 tgttactgct ttccgtcaat cctattctga tgcatagcct gacattgttg ctacacctgt 180
 tgatacctta cctgcaatcc taaatgctta gtataggatg ctagtttata atcattggcc 240
 ctacattctt gtcagtctgc cttgctatac tatcgggccg tgatcacttg ggaggtgac 300
 acgggtatat actatacata catacatact atacagatgg tgactaaagt cgggtcagct 360
 cattgagtac ccgcaagtga ttctgacgat ggggctgaaa g 401

<210> 6678
 <211> 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-G2

 <400> 6678

gggtcgacgg gcatctagta acaagaatat gaaatcgtaa atagcgaaaa attcttgtct 60
 tgcgcggtct aagtctaagg aaataaaaaa aattcgctta tacaatttca tctacatcga 120
 atttatatat cagaatagcg gatagaggca tcattaaagg agtcaggctct acttacttta 180
 tgcttcttcc caattttatg gtggatttga taagaaccct ttttgctttc ttgataaata 240
 atcgacaaaa aaagcgtttt ttttatataa cctgcttggt ttattataat tataacaagt 300
 cctatatgga aatgcccgt aaagagaaaa tctgtttgat tgtctctcgg ccaatatcga 360
 tttttagaaa gaaaaaacia gaattttctt ctttttttat taacattaag aaaaaagaa 420
 tataac 426

<210> 6679
 <211> 374

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-H10

 <400> 6679

 ggcagttcca gcttaaaaga ctcatcggt ccggcggtcc tccgccgggg aggccgccgt 60
 tctcgcgtcc gagctctctc ccgtactagg gatcttcttc cccactccac cgcttggttt 120
 ttctgactgc gaagtttttg gcctcttcgg gtcttggttt ggaggagggc tgattggggt 180
 agcagatccg ttcttgccgg agagcaccac ttccagcccc gtatttcctt tgtgggtttg 240
 caaacctgc acctcatcag aaggacgttt gcgattggca tcagaatcct ccgtctccat 300
 cttctcttgc ttaggatcat catctcctt cgtagcttgc tggcccgacc cttgttggtt 360
 tgaagtcctg ttcc 374

<210> 6680
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-H12

 <400> 6680

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 gggaggccaa ccgtcggcct ccatgatcac aggtaatcat gaccggtttt gcatgcaggg 120
 acttgtcaat tcgtgcagtt gccgaggcat cgtggggagc caggatgccc acgtccaatc 180
 aaccgccacg cgtctcccaa ggccgcaggc tattggggccc gtggcgcttc gtacttgccc 240
 cttcgcttcc ctgctaagcc aagtctgggc gcgccttggg cccgggggct actgtcagca 300
 ttctgggaac ggggttacct agacttgctt gcctgcggcc tgcagcgtgg ctcagggagc 360
 ggcccagtac ggcccatctt catcagcgca tgccca 396

<210> 6681
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-H2

 <400> 6681

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 aactcccagc tgagttaagc ggttatgtaa tccagacata gtgagtatgt gctcactgac 180
 agaactatct tctccatct tacagctgaa gaacttgtcg gaggcctcat atctctcgac 240
 ccgggcata gcttgaaaa ccattttcag ctcttcgaac atctcatatg ctccgtgtct 300
 ctcaaaacgc ttttggagcc ccggttctaa gctgtaaagc atgccgcact gaacgaagga 360
 gtagtcatca gcatgtgtct gccaaagcgtt caaaacatcc tgttctgcaa gggaaac 417

<210> 6682
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H3
 <400> 6682

tcgacgggag gtgctcgagg ggcccacgat ataagattca actacatcat aaggctcttg 60
 taactcgatg gatccgagtg aacgattctg tcaatgatcg cctcatcctc ggagattaac 120
 tcccatctga gttaagcggg tatgtccacc agacatagtg agtatgtgct cactgacaga 180
 actatcttct tccatcttac atctgaagaa cttgtcgacg gcatcatatc tctcgaccca 240
 ggcgatgatc tgatatacca ttttcagctc atcgaacatc tcatatgctc cgtgtctctc 300
 aatacgcttt tgggtccgcg gatctaagct gtaaagcatg ccgcactaaa ctaaggatta 360
 ctcatcagca atatgtctca caagcgttca taacatcatg ttc 403

<210> 6683
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H4
 <400> 6683

cgggtcgacg cggaagactc gacaatggtt gccacgcgg tggggagtag gagggtttac 60
 tgggtccggt gccgtcgctg gaaaataata ggaggtgtgg gtgagtagag gaatggcctg 120
 gccagcaatg aagtagggta gggcgggtgcg gcccggtgcg cagcacagcc ggccacggga 180

ggcgggagca ggcagtccca ccagagctgg tttgggcggc tggagcaaga agatcagata 240
 ttgaagaagc agcacggctg ttagattaac atccaacgat cactgctgct acaatcgttt 300
 gtggactaac ttgataagac caaagtacac gtcaacctag tatacccaca aatcagcctc 360
 caaatctgtc ccaaacaaca taca 384

<210> 6684
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H6
 <400> 6684

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 gaggagtctg acagcgaggt ggcggagatc cgcgcgcgccg tgctcaacga gcccaacgag 180
 gtcggggaga ccgcgctgct catcgagct gagaaaggt tcatcgacgt cgtcctcgag 240
 ctgctcaatc actctgacaa ggagagcctt gcgaggaaga acaaatcagg attcgatgct 300
 ctgcatgtcg ctgcaaagga aggccaccga gatattgtga aggtactcct ggaccatgat 360
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<210> 6685
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-A10
 <400> 6685

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 ccggcgcgct tctctcgtat gaccgaacc tgaggaggc gttgtggcca tcccttgacg 180
 aggctcgac caagatcttg agcatctggg accatgcaga cattgtcaag gtcagcgatg 240
 tcgagcttga gtttttgact ggcataact cgggtggagga cgatgttgcc atgaagctgt 300
 ggcgccttac cttcaagctc atgcttgta ctcttgaga tcaaggatgc aagtactata 360

ccaaggattt ccgtggaact gtcccatcct

390

<210> 6686

<211> 320

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A11

<400> 6686

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gattcgccgc attcaattca tccaggaaac accaagatgt atctggatct gaaggaaaga 180

ttttggtgga caggaatgaa gaaggatatt gccgagtatg tagcagtttg tgatgtatgt 240

cggagagtta aggcagagca tcagaagcca aatggattgc tacagccatt gccaatatccc 300

gaatggaagt gggataagct 320

<210> 6687

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A12

<400> 6687

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aagttgattc tgcaggaggc ccatgattcg ccgcattcaa ttcattccagg aaataccaag 180

atgtatctgg atctgaagga aagatcttgg tggacaggaa tgaataagga tattgccgag 240

tatgtagcag tttgtgatgt atgtcggaga gttaaggcag agcatcagaa gccatatgga 300

ttgctacagc cattgccaat acccgaatgg aagtgggata agccaggcat ggactttaac 360

actggattgc ccaggaccca a 381

<210> 6688

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A2

<400> 6688

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tgaatctaata attaaaggat ttatttcttc gcaaagaat tttaatgcta tgattgaaga 120
aaaattgctt aagattgatg atttggctag gaatgttgat agaattgctc ttgatgttga 180
tgctttgaaa cttagatcta ttccacctaa gcatgatatt aatgagtctc taaaagccat 240
gagaatttca attgatgagt gtaaagaaag aactgctagg atgcgtgctt ccaaagatgc 300
ctttattaaa tcttgttctt ctaattctta tgaaaatcaa gatgaagatc taagaattat 360
tgatgtgtct cccattaaat ctttgttttg caatatgaat gtagatgaaa ctgaata 417

<210> 6689

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A4

<400> 6689

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cgtactagag gttcaaacaa gtgtgagata tgccagcaag ttgctgtcaa catacctcct 180
ccagagacac aagcaagtgg atggtttagc ccactctggg ttgcatttgc aattctgatt 240
ggtggtctat tattggatgt gctgatatct gtttctcttg gtgtttccgc acttcctgtg 300
aacataataa ttggtgttct gattgttctc ggcttgggca ctgcccttcg actagctctc 360
gagtgtgcc aggagtttgg ctcgaggaga agcatgccaa ggatggaaaa catggcaccc 420
agtgggttac 430

<210> 6690

<211> 275

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A6

<400> 6690

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attgatgtct ggttccgtac taaaggttca agcaagtgtg agatatgcca gcacgttgct 120
gtcaacatac ctctccaga gacacaggca agtggatggc ttatcccact cggggttgca 180
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tccgcacctc acgtggacat cataattggt gttct 275

<210> 6691
<211> 315
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-A9
<400> 6691

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tgctcaagca gttcaggaac ccctacgagt gagtcaactc aatgaccatg gatggaaatt 180
ccagacccca attttatttc tcgtgggggt cagcggaaac ttgaacttga ggtgtatgta 240
tgttaacttt gatcataacg ctttgatgta ctatataagt atcagtcaat caatatttac 300
atgacctcgt tgatc 315

<210> 6692
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-B10
<400> 6692

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tttcaatttt tcattttttt tgtttgggat tctttggcct ctttttttat ttgggcttct 180
ttggcatctt ttgtcacat gggacaattc tccaataatg atgatcatca cacttttatt 240
tacttacaac tcaagaatta caactcgata ctagaacaaa atatgactcc atatgaatgc 300
ctcaagaagt gtacctggat gtgcaatgat ctacgtagc catgacataa aaaactggac 360

aagccatgaa aacatcatgc tagctatctt atgatcatgc aaag 404

<210> 6693
<211> 176
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-B11

<400> 6693

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ccctcaggtg cagaacctgg taaatggctg gtaagacaga accactgctg ttagtagtac 120

atagataggc ctgtaatttg tgacactaat cctttttcct cctctccctg atgcaa 176

<210> 6694
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B12

<400> 6694

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tacaacttgc cacttcccgc agtataagta atattgagct tctgaatgtt t 171

<210> 6695
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B2

<400> 6695

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tcagacgccc gccacgcat tcgccttgct cgcggaccga taggctcaac cgctccttg 180

gccaagtgt ccaccgggccc cagtggagga acatgcccgt cgcattctcg agctgggtgat 240

ctccgatgaa atagccaact tggatgaacg cctgcaaaca cgagttcagg cagagccaag 300
agctactgta cgcaacggct gctggatcatg gtctcatgga cgcgtttcat tttgttgagt 360
cgtttcgacg tggatagcaa tgtatttaca gcaattatag tattgctctg t 411

<210> 6696
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-C1
<400> 6696

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cctgaagccc ctctaattctt caatgccgtt gttgagatca caaaggggag caaagtcaag 120
tatgaacttg acaagaagac tgggatgata aagggtgaca ggattctgta ctctccgta 180
gtctaccac ataactacgg tttcgtacca cggacgctgt gtgaagatgg agatccaatt 240
gacgtcttgg tcttgatgca ggaaccagtc atacctgggt gctttcttcg agctaaggct 300
attgggctta tgcccatgat tgatcagggt gagaaagatg ataagctcat tgctgtttgc 360
gttgatgatc cagagtaccg tcatctcaac gaccttaagg agctctctcc ccaac 415

<210> 6697
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-C10
<400> 6697

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gtggatattc aagttttaga ggaaaaagg caaccatgga agacttcttt gacataaaat 120
catctaaaat tgatgataaa caaataaatc tctttggaat atttgatggg catgggggtt 180
cacgtgctgc tgagtatttg aaggagcact tgtttgagaa cctcatgaaa caccacaat 240
tcatgtcaga taaaaatta gcaataagtg aaacatataa aaaaactgat tcagatttct 300
tggattctga aatcaacact cacagagatg atgggtcaac tgcacgaca gcagttctgc 360
ttggaaatca tcttt 375

<210> 6698
 <211> 333
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C11

<400> 6698

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 gaacttgaaa gaataagaac acaaacatct gagccaccgt cagactcatc aacgtcggag 180
 ccagcgttgt caggcgctg aatagcatgg gatcagtcca tcatcgaccg cagcttcact 240
 tcacttcagt tcagctcagc atactatgga gaccacgggg aatgtgagag tactgacata 300
 tgaccaatc gcgacaaagc cttgtgctgc aac 333

<210> 6699
 <211> 395
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C12

<400> 6699

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 agcaaccata gctacctatc atggcatttc catagccatt ccgagatata gtgccatgca 120
 actttccacc attcctttca gtatgagacg ctccatgatt gtcattattgc tatgcatgat 180
 catgtagttg acattgtatt tatggcaaag ccaccattca tatttctttc atacaagtca 240
 ctcatgagtc attgcacatc ctggtacaca gccagaggca ttcatataga gtcatttttt 300
 gttccaagaa tcgagttgta attcatgagt tgtaagtaca taaaagtgcg atgatcatca 360
 ttattagagc attgtcccag tgaggaaagg atgat 395

<210> 6700
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-C4

<400> 6700

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gggcggcggtt gatgcgcgcc gcccggtctc tctgcagatc tgactgangg tcagcaagtt 120
ttggaagata atgcgcaaac ttttaaatta gtttcttcgt ttattctctt agattgattc 180
tcttggggta gcactggtag ctactccctc cgttcggaat tacttgtcgc agaaatagat 240
gtatctagac atattttaat tctagatata tccatttccg agacaagtaa ttccgaacga 300
acagagtaag ttctaagtgt agacatcttc aatagatgat ttagatgtaa aaataaggaa 360
aacgattgcg cgctcagtcg gctgatgacc 390

<210> 6701

<211> 197

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C8

<400> 6701

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tttcagaacg catactatcg gtctcgtaca ctactacag ttgtcttcga cttatgacgt 120
catcagtggg agcacgggtga ccttgcttaa catccgtgca ctcaacatta tgcacgtttc 180
actcgcatgc ttgttac 197

<210> 6702

<211> 342

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C9

<400> 6702

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ggagacatcc aacaaactgg aaggcattcc tgggtgtttg tttgtgcttc ctgattcgta 120
tgttgatcct gagcacaagg actatggagc tgagcttttt gtgaatgggg agattgttca 180
gaggtctcca gagatgcaga gaaggggtga gcctgtgccg cagagagcat cagataggcc 240
tcggtacaac gacagaaccc gctaccaacg gatgacggag aaccaatagc ggtgatgagc 300

cgagggtgctc gattgaagat caaataacaa gccctggtgg tt

342

<210> 6703
 <211> 327
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-D10
 <400> 6703

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 gagtccatgt gtgacggtgc ggctgtaaca caacatgtga ttcataatat ccacatgcct 180
 caccatgtaa gaaatatgcc ctaaaaaaca aataataaag ttgttaatta aaattccata 240
 ataacatgat aaatgtttta taaatcaatg ctaaaattgt aaataaccga aaacttaata 300
 aaatgtgtga atacggcccc ccaaaag 327

<210> 6704
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-D12
 <400> 6704

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 gttttcgggt ttgaaggcat aagcgcagca gagatcttct ttcatttaag aagaagccac 120
 cgtaaagaag aggaaacaag gcgtttaagg gacaccgact cccattatct tctccaggcc 180
 tgctttggct aaatcgacgg aggcttagct tattatgttt cgggcgttta gctagcttag 240
 agaataaaga aatctatctc taaaggggga gcggtacgac tatttttaggt tagaggaagg 300
 ttgaagagag aatagctaaa atagccagtc gggtaggcaa gtgcgggtgg ctgtggtcaa 360
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<210> 6705
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 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-D4

<400> 6705

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aatctatccc ttccatagca ataacaagaa ttaaaaaaaaaa gggaatgaca aagcatctgg  120
gaataaacga ttaattttcta tcaataaacc tgctaaagca ccaaaccata gagtacttag  180
cacgggtgct acagagagat atgtttttat atcccgcatt gaaaatcctc cttccttggt  240
ggaatacata tatgatcata aactcttgcc caagattggt atgctatata taaaatgaac  300
catatcgacg aaattttcct atccctaaaa aagaaaaaga tgaccccttc ttcctatata  360
ttaccaagga aaagtaatcc ttcttttata ngcgaaatta tattggattt tatatgtata  420
ta                                                                    422
  
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<210> 6706
 <211> 335
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-D9

<400> 6706

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ggttttggga gtttctcggt gaaagcagtc tgaattgggc atctttggct ggttcctgga  180
tcgatcaatt tagtgctcca ttttgacaaa gagtttacia aaccatttac tgttgcagtt  240
agtttcagat attagttgga gtgctgtcta tgcaaacttg tagataacaa tttattgaat  300
caacttgga tgaattagt gagaaagttg aagcc                                     335
  
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<210> 6707
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E1

<400> 6707

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 ccagcaccga gattaggcac cctgtctcgc actgccgctg caggttcctg accaagacat 240
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 agacaatgca tgttaatttc ctgtccgac ttcgctttgt acgttcaccc tacgctaata 360
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<210> 6708

<211> 337

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E10

<400> 6708

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 cagtcttgaa gcgaacctgc tgtttgttgt cagattcaca cgtatcagtg ccatgcaccc 180
 aaatagcaaa aagatctttc agctgttgcg tttgtgacac atattcagtg gtgtgttcct 240
 gaacgttaac aagggcatca tcaacattca ccgcatgggc tatccatatg ttgcatatgg 300
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<210> 6709

<211> 275

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E11

<400> 6709

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 aaaaaagaaa aaaataaaaa aaaaacgggc ggcccaaaag attcaaactt aacttacctt 120
 taaagtcaag ttaaaacccc taaaaaattt tcaccaaatt taaattaatg ggctttcttt 180
 taaaaagttc ttaacgggaa aaaccttggg ttaaccaaatt ttaacccctt tgaagaaaat 240

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275

<210> 6710

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-007-Q1-E1-E2

<400> 6710

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tccgtctgcy atcaccagc agggagactcc agcttctccg gctgcggctc cagaagatga 180

tctgcctctg cctcctcccc ctccactgac ccagcatgag gaggatggaa cgccagaaga 240

tgatctgcct ctgcctcctc ctctccact gcccagcag gaggctggag cgccangttc 300

agcgccagag gcaggagccg tcgatgacaa gtgggcagga ggtggcgatg acaagtgggc 360

gggaggcccc gatgacaagt gggcttagtg gttgcttaag gcgtggaact gaactgaact 420

g 421

<210> 6711

<211> 379

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E9

<400> 6711

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ttaagcgtga ggcccggatg aagggtgggt tctatgtcag tcctgaggct aagctgctgt 180

ttgttgtcag aatcagaggt atcaatgcca tgcacccaaa gaccaagaag atcttgcagc 240

tgttgcggtt gagacagata ttcaatggag tgttctgaa ggtaacaag gccaccatca 300

acatgctccg cagggtcgag ccatatgttg catatgggta cccgaacctg aagagtgtga 360

gggagttgat ctacaaaag 379

cgggtcgacc ggcaactgaa gctctcaagt agtctaagtg aagtgaaaga acttactgca 60
 taatagatac aaacttcaca gcaagatcag cacccaaagc caacaatctg aaacatatatt 120
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 ctttgagcaa tgcaggccat gaagaacaac aactataaag acttgccaca aagaaattgt 300
 tctaaacatc caacgataca tgtgtctaac atagctcttt ctatctacat gccttgctca 360
 taatattgta aatgatcggt cgtaagctta ttagaaaaca tgtatcatca gcaaccatcc 420
 atccatcatc aattcaatac tt 442

<210> 6715
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-F3
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 ttcctttgtc ccaactgttt aagacaaaca aatgaaagct aaactcctct gagacctctt 180
 ttagacactt cctatggata cgtagtagaa acaatcataa ctttctacia caatatgtag 240
 aaagtgttac tttctctatt ctcatthaaga aacattagta acaccaattt tatttacact 300
 ttttttgaa atgtcattta cactttaatt agatgtatat gttccttttt tattgctaac 360
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 caagaa 426

<210> 6716
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-F9
 <400> 6716

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cataggctcg ttgtgcacgt ccctgctctt cctgagggca ccgctcgggc ctcaacatag 120
caggaacagc ggtactgctg gataggcgaa agagatggca ttttcgatct gaccagactc 180
atccttgaca ttctcatata taaagatctg cgggttgactc cagctccggc accattgatg 240
gtgtgagcta attttcgttg gtcaacgctg taggttctac agtgctaattg cgaaaatctg 300
agatctgaaa atgtcactgc ttcccggtg ataccctaata catccatgca gttgggtgact 360
taatcaatcc gatggaattt gctgct 386

<210> 6717
<211> 402
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G1
<400> 6717

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cggcgactac cggccggtga ccagcaccaa ggaggtggat ccggctgacc tgcgtgcaga 120
gatgctcaag cggaggttgc tgcagcagca atgatgcgcg tgctgcaaac acgctaccgg 180
cccatagggt cataccgtca tgtacaacaa aacgttaacg ggcgtgctaa actatattta 240
ctagggtgcc tgtcggacaa cgacttgtca ggaaattgct tcctgtaagt atgtaagtct 300
tcaacagaca cttacatatt tacttgttct acgcaaactg tccaaaattt ccagtggtt 360
tcgcacacca cgacaatatt tcagcacaaa aaaaaatgaa aa 402

<210> 6718
<211> 366
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G10
<400> 6718

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ggagcaatat ttttgttcgc cacatgatat gtgttttgct tggagcgtat tgtatgatct 120
tagtgtttgc tttttatatt accacaatca tccttgctgt acacaccttt tgggagaaac 180
ccacttgatt ggaatttatt agaatactct atgtgcttca gttatatctt tggagctaga 240

tagttttgct ctagtgcttc acttatatct tttagagcac agaggtggct taattttgta 300
gaaattgttg atctctcatg cttcacttat attattttga gagtctctta gaacagcatg 360
gtgttt 366

<210> 6719
<211> 378
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-G11
<400> 6719

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ggaacaaaat taccaaagga acggccaaaa aaaaaaaagg caattgccga aaaaattacc 120
aatttcaaaa ggctggttca aggtggcaac ccggtggcaa tgccaaattg gaataagtct 180
gagcaagaga tggaggatgc aggggtcact ccggttacta agagctggcc cccaggtgc 240
agaacttggg tctatgcgca tggggggacg ttggaccga agacaagcct agtttcgaag 300
aangcaagtc taaaangagc agaacaaaag ttacttgacg caatagaaga tgctcgaaag 360
ggggtgttca cgccaac 378

<210> 6720
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G12
<400> 6720

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tcccgtgaa gggcgcttc ctgatgctaa gaaaggcgca ccacatctga gggacatctt 120
ttatcgaatg ggcttaacag acaaagatat tgtagcacta tctgggggcc atagtctggg 180
aaaggcgcat cctgaaaggc ctgggtttga cgggtgcatg actcgtgatc ctctgaagtt 240
tgacaactca tactttcttg agctactgaa aggggaatca gagggctctt tgaagctccc 300
tactgataac gcattgttgg atgatgctga atttagacgc tatgtggagc tttatgcaaa 360

ggacgaggat gcttt

375

<210> 6721

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-G2

<400> 6721

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taaatgaaac ggtgaaaatt tgcattggcaa tatatctcaa aatggctatg gaaatgccat 120

aataggtagc tatgggtggct gttttgaaga acgtaaataa tgggtgcatg ataccggcga 180

aagttgcgcg gtataataga ggctagcaaa gtggaaggat gagtgcgcgt atatccatgg 240

actcacatta gtcataaaga actcatatac ttattgcaaa agtctacttg cctcgaagc 300

aaagtactac tacgcatgct cctaagggaa gggttggtac gagttaacta tcgcgcgatc 360

ccgacctcca ctcataagga agacaatcaa aagagcaact catgcaacaa atttgtcaca 420

caact 425

<210> 6722

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-G3

<400> 6722

ggtcgaccgg ggatccgact ccactgccgc ctatctttaa ctacatgttg ccgtgctgtc 60

ctgttttgga aacttgtgtt gggttgttaa gccgtcgggtg ctttctttgt cgctgttgaa 120

ctgcatcatt agtacttcgt ggaacaagta tctcgcttaa tttgttctgt cctgcccggc 180

cctgtctttg ctcttgggtga tcggatcata aaaaaacaaa aaacatttct gaaaagacac 240

aattaaaaga tatatgccaa atgatactaa caactatcat ggtactatga actaaaaatt 300

aggaagagaa cggatcaaat gtcaattaat acatgatcaa agggggcccc ctaaagggtc 360

aaaccttatt ta 372

<210> 6723

<211> . 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-007-Q1-E1-G4

 <400> 6723

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 tgatgattgt tatgatcccg ttgattcttt tgaaatatcc ctttttgatg atgcttgcta 120
 tgcttgTggc caagatgtca atatgaatta tgcttatgga gatgaacttg ctatagttcc 180
 ttatgttaaa catgaaattg ttgctattgc acccacgcat gatagtccta ttatcttttt 240
 gaattctccc gactacacta tattggagaa gtttgccctt attaaggatt atattgatgg 300
 attgcgtttt actactacac atgatgattt tgatagatat aatatgcatg tgcttgctgc 360
 tcctacttgc aattattatg agagaggaac tacatccccg cctctccatg tttcccaata 420
 tgataa 426

<210> 6724
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-007-Q1-E1-G8

 <400> 6724

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 ccctaacgtg tacgcgagcc tccttggggT tctgtggtct tccgtggcaa acaggtggca 120
 cctggagatg ccagacatta tagatggctc gatttcgatc atgtcaagga tcggccttgg 180
 gatcggaatg tttaacacgg gcctgttcat atgtctacag gacaagctcg tcgtgtgccg 240
 gactggacat accgtgttgg gcatggccat gaggttcgtc tctgctccgg gatccaccgc 300
 tgtcggagcg ctacttttgg gactgcgtgg tgaccttttg cgtgttgcca tcttacacgc 360
 tgcactgcct cagtctgtcg gagcatttat cttcgcgcta gagtatgacc tgcacgctga 420

<210> 6725
 <211> 379
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-G9

<400> 6725

ggtcaagaat taccggggccg actatcacaa tgaccggggt cttgtcgcca atgatccgca 60
tctccatact cagcgaaaat agccgaacga aggtgtagtg cagcggatga aggttaaaca 120
tagcaaagat gtcatcaaac cgcaggacga tcgtaccccc gatgtcgcca tccacaaaagc 180
ccttgccctc tggcaccttg gccacgaaaa cggggtatgc cacatccttc tctctgagac 240
gccgcttctc caaagaaaga aactgtcgt gcagactcct cctcgagata tcctgcggtg 300
aaggtggccc gtcttgagca cggatcgtag tcggtgccgg ctggctcgca cccttcttag 360
tctttctttt gtgtgcctt 379

<210> 6726

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H1

<400> 6726

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gccgaacgga cggcacctcc gcgttcaaca cacgtgcagc ccggtgacgt ctcccatgcc 120
ttgatccagc aaggggagag ggagagggtg gggaagactc cgtccagcag cagcacgacg 180
gcgtgggtgt ggtggaggag cgtggcaatc ctgcagggct tcgccaagca ccgcgggaga 240
ggaggaggga gagaggcagg gctatgcat ggagagggtc aaactcatgt gttggcagcc 300
ccaaagtcct caagtatata taggggagag ggaagggggg gccccccctt tagggtttcc 360
cacccaaggg gtgccgcagc cccaaaccca t 391

<210> 6727

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H11

<400> 6727

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gctgccccag acaagcatga ccacgtagta gtcttataat aaaaacacta ccgagttcag 120
 gtggggaacc ctctgcgagg atctcgaagt ctttacgcaa gtccatggat tagatcccaa 180
 gcatagactt ctcttccttg aacaagtcaa tcagtggctt ggtgtgctag ggacacatat 240
 agaatggagg tagcgagcct atcaaaccat accatacttc gcacatgcat gactgacttg 300
 agatggttcc agaggaggca acattgactt tctcgaattc acgacggcaa cttgcatcaa 360
 atgcaca 367

<210> 6728
 <211> 336
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H12

<400> 6728

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 tcggtggttc tagcctggca ttcacatctg ccattctgga cgttggcggt aacactacca 120
 gagtggacaa tggcaaagcg taccatgcat acacaacgga aaagaagccc gaacctgcgc 180
 attgatcaag gttgtctact tgtagcacia atcatgcaaa ccagctcggg gaatttttga 240
 gctgatgtgt gctgttatgt ctgttttgct gatgcaccta gttcctttgc aaagctgtag 300
 taacttgttt tgctcgaggg caatacaaca gacctg 336

<210> 6729
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H2

<400> 6729

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 ataggttagt cccaaaaata atataaaagt gtttaataaa gcccataaac atccaaaaca 180
 gataatataa tagcatgaat acttcataaa ttatagatac gttggagatg tatcactttc 240
 cttctgatta gattgctttt ccatctcttc tcaagtactt gtagcacaaa gacctgtttt 300

gaagcgttgt ttttctagtt ttgcttgcta gtaaccggct tgat

344

<210> 6730

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H3

<400> 6730

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tctcaaggac atctgctgga acggtccgtc agaggaaaag cttccatcag tatcggagtc 120
agtacctcca actccgtcct ccaagtcgac caaaagaaat gtcatttaag tgtgatatct 180
tccgagctgc aattacaatc tattctctc tctctttctt cctcctcaa agagctgaga 240
ctttgctcac ttgagtatca agctttaggg ctctttgtta atcctttttg cagtttccct 300
tttgtggtag caattgtagt atatggattt cctgttttgt tcaccaatag aagcacaaaa 360
ggtgacagta ca 372

<210> 6731

<211> 439

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-007-Q1-E1-H4

<400> 6731

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tcagatctga tatcatggca ctcgggccct agtgacaagc attaagcata gcaaaattat 120
agcaacatca atcttagaac ataatggata ctagggatca aaccctacca aaactaactc 180
gattacatga taaatctcat ccaaccatc accgtccagc aagcctacga tggaattact 240
cacacacggc ggcgagcatc atgaaattgt tgatggagga aggttgatga tgacgatggc 300
gacggattcc cctctctgga gccccgaacg aactccagat cagccctctc aagagagatt 360
tgggcttggc ggcggctccg tgtcgtnaaa catgatgaat ccttctctct gatTTTTTTC 420
tccccgaacg tgaatatat 439

<210> 6732
 <211> 399
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H7

<400> 6732

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gtcgacgggt tgaggcaact ggcttggtact atgatgcttg tatgacgtat ttacgtttta 60
gagttgtggt gtgatatctt cccgtgagtc cctgatcttg atcgtaacacg tttgcgtgca 120
tgattagtgt acgattggat cgggggagtc acacaaacaa gatttcaagt gaccgaacaa 180
tagcacaagc aattaccata cgaactccac tttaactttg taacacaaac atatgcacaa 240
tatacaccca ttaacccgac agttcttgcg ccgacgcata agcaagacac aatacatact 300
cgtaaacgt gataccaaga gaacaagaaa ggtaaatcac ttaaaaatcg aatagttgtg 360
gtggtgtcac cttaaagaac aaacggacaa aaatgaaag 399
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<210> 6733
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H8

<400> 6733

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caciaagtac tatccccgct ttaacctgga agatacttca agttttaggg acttggtatga 120
acatagcaaa aatgtcctta gaagattata ccatgactat tatttcgttc gccaaagaaa 180
tctttggcga caaaatgcac tgaagactct acctgttcta ttgaactggt cggatatggt 240
ggcatgtggg gaagatcttg gccttatccc tgcttggtt caccctgtta tgctagaact 300
cgggttgatt ggattgcgta tccagagaat gcctagttaa ccaggcttgg aatttgatat 360
tccgtccaag tacagctata tgacggtttg tgctccctca tgatcatgatt gctc 414
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<210> 6734
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A11

<400> 6734

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gcgggggacta tgtgcccgga ttgaacgttg atggtatgga ttttcttgca gtgaagcacg 120
cttgtaaatt tgccaaagaa catgttcttg aaattggacc gattattctt gagatggaca 180
catatagata ccatggacac tctatgtcag atccaggcag cacttaccgc actagagatg 240
agattgcagg aataagacag gagcgtgatc cgattgagcg agtcagaaag ctattattga 300
cccatgactt ggcaacagcc caggagctca aggacatgga gaaggaaatc aggaatgaag 360
ttgacactgc aattgccaaa acaa 384

<210> 6735

<211> 126

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A2

<400> 6735

ctggtgtccg ctttgatgca gaaaccaaga tgggaatgga aacattttat gggtatatac 60
aggacatatg ggaacttgac tattgacgtg gtttgacggt ccctttgttt cggtgcatat 120
tgggtc 126

<210> 6736

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A3

<400> 6736

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gatgcgcgac accgcaccaa ggaactgctg cactaagctg aaatagctgt tcggcttcgg 120
cttttccggt cacagatgat ctacgacgaa cctcatggca agtccggaca atctattgag 180
ttcggcccat tcggcaagct aatcagttag tggaagtgga tgctctggaa cgttaaactg 240
cgaccagaat agcttgtcca cttcacgacc tgtttgatct cggaagtatt cggccgcac 300
gatagcactc gccgtcaa at ccggatatg 329

<210> 6737
 <211> 342
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A5

<400> 6737

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 tgaagagaag aagcctgtac agatagtgga agcgagtggc aaggccaagt ccaaggaaga 120
 tgatcttggt actgcaccct gatcttctgg aaatcttga cttgttgaca cttgctgtga 180
 ttttatatgg ttgtaacgag aataatttct gatctgggta cgtgcacacg tttctgtgtg 240
 cagtacagaa ctccctctat atacatatac agcttgagt taagaatata aacgcccaga 300
 aaaataaaat aaccacataa accaaaaaaa aatgcgtcgg ct 342

<210> 6738
 <211> 239
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A7

<400> 6738

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 ctcttggtat ttcttcagtt ctttcgtctt cagattttct gctcaaaatc gccgggcgct 120
 ctgcgcgctg ctagtgtgat atggtaatgt acatatgagt tttaacatga tatattgtgg 180
 aactttttgt cgcaaaaaat aaaagcaaga tttcagattc aatgttcaat tctcaagat 239

<210> 6739
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A8

<400> 6739

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 agatggctcg ctacacaatt atatctggga atttagagtt gttagtttac cgtgctgctt 120

tcttttttgt gggtagatct aatgtctcta cgtataatag ataccgagtg tatgctgggtg 180
gttcttttcca ttcttttgag gtcgtgggtg ccatgtaaat gtttgtggat tccttatgtt 240
tttgctcctt gcggtaaata aaagctaata cagattcgtg gtcgaaaaaa aaacttaaaa 300
attaaattca tagttaaaaa caataaaaaa aataacccaa atgaagaagt tcaacaaaaa 360
aaaaaagcgg ccgccccaaa 380

<210> 6740
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A9

<400> 6740

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gtacctaacc agaggtggcg atgctgacag ttagcagtct gcctatgctg gtggaagctg 120
cagtctaata cgacaagata tcagcacgcc gaccccgccg aaaggctaca tcacagcctt 180
ctgatccgat cgagatgacc aattcactca ccggcgcaag ccttcaggag atgcatcagg 240
atctaacgat tggcaaaccg ctcgccagaa cagatacggt tatatagttc ataacttcac 300
tcgcacgcat gaaatggact gcacgaatag cacattccag tgagtgttga cgtcccatgg 360
actgatatag cgggcagccg ggcaa 385

<210> 6741
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B10

<400> 6741

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catcctcggc cagcagcgca ccgtctgggc ccagagcgcc gacttcccc agttcgggcc 120
cgccgagatc actgcatca tgaaggactt cgacgagccg gggcacctcg cccccaccgg 180
catgttcgtt gcaggtgcc agtacatggt catccagggt ggacctggcg ctgtcatccg 240
tggcaagaag gcctgtaggg agcaggaggc atcaccatca agaagaccgg gcaggcgctg 300

gtggttggcg cctacgagga gcccatgacc cctgggcagt gcaacatggt ggtggagagg 360
ctcggcgact acctcgttga ac 382

<210> 6742
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B2

<400> 6742

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gcttcagtta tatcttttta gagagataac aggaattggt caatcacatg gttagtcata 120
aattcctaca taaacttgta gatcgttgaa tctgatatgt ttaatttctt gcaatagttt 180
tacgatataa aggtggtgat attagagtca tgccagtggg tggttgtgga ttgtacagac 240
acttgtgttg aggtttgcaa gtcccgtagc atgcacgtat ggtaaccgtt gtgtggcaaa 300
ttgaagcatg ggggtgttcct tgaatgtc 328

<210> 6743
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-B3

<400> 6743

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tttagttcat tgcaagaaca aggagacaat cctattataa tttattacat tgtaaaaaca 120
tcttggaacca gtacgttggg atggcatggt gtgtaaacag ggaaaggat actaaggcga 180
gaggcataga tgcgaccaac gagccggcca aaaaaaacca ttgccaaccg tgcacgcgaa 240
gagcagtgat ttaattgatg taccaacaat cactcagata gaaatggaac atacacacac 300
aaatagatgt gaaacatgcg tcaccncaa aagtgccacc gaaatgaaaa aaagagcctt 360
gaaaa 365

<210> 6744

<211> 344
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-B5

 <400> 6744

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 agggggcggcg gccccgggct ctgagtgagt gaggctttgt gttgctttgc ttgttgtgaa 120
 ctgggctggg aggttgcgtg atcttgtgtg tgccgaagc tttatgcttc caggatgtga 180
 tgggtccgagc gatgcggaaa cgggtactgta actgcatcat atgtttatgg tgtcgatcgc 240
 cttgggtgat atcatcttcg ggggtgactc tataaacaat ggtgcttgag ctgtcatggc 300
 aaaagtaaaa cattgcgggtg taatgctgca tttcaaagc gggc 344

<210> 6745
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-B6

 <400> 6745

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 catctccgcc tgtgcgccgt cgccgcgggt ctctgccgt gtccacaaga ttcctcttcg 120
 ccattgtcgc accatgatat gctactgttg atactcgaac ctgagagcga aactgtgctg 180
 tgaatcctgt gaaaaaactt acataaagac cagtatagtt atgtgttgat aagttttcaa 240
 gttatgggta gtccttttaa ggactatgga ataa 274

<210> 6746
 <211> 213
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-B9

 <400> 6746

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 cagctctaag taaactgcgt ataaatcatg tatgtagaaa gtacgtgtaa cagttgttag 120

aagttgagtc cttgtgtgat ggtgcggatg taacacagca tgtgattcta atcatccaca 180
 tgcctcatca atcagtctgt acggataacc cac 213

<210> 6747
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-C1
 <400> 6747

gggtcgaggc gaaaatatag tccatgcatt ggaagattta ctggctcaag cagaagttgc 60
 tctatgcttc tgctgtgtca agcattagct tagttgcagc cttgctggaa ggatggattc 120
 aggtgtgcaa gattgatgat gtacctgcaa acggcttcgt taatttttagg aaggatggag 180
 tcgtgcatgg actggatcct aaccgactga catgaaaact tgaggctatt acacggattc 240
 agctttgaaa cacggctttg aagtccgagg cgtgccttat gattttttgt gggctgggac 300
 gataggttgt actgt 315

<210> 6748
 <211> 373
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-C11
 <400> 6748

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 aagaaggacg gggagcacia ggagggcatg atggagaaga tcaaggacia gatcagcggc 120
 gacggccacg gcgacggcaa gaaggacggc gagcacaagg agaagaagga caagaagaag 180
 aagaaggaca agaagcacgg cgagggccac aaggacgacg acggccacgg cagcagcagc 240
 agcgacagcg acagcgactg agccagctcc ggccgcgtgc agtgcagggg agatgaacgc 300
 gtgggttaat ttggagcgtg tggtagcata tgtatgtaat gcttgacatg tctcatggat 360
 cntgtaatgt aat 373

<210> 6749
 <211> 271

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-C2

 <400> 6749

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 gtccgggctg ctcaacatgg tggacggcct ctggtccagc agcggccatg agcggatcct 120
 catcttcacc accaaccaca gggaccggct cgacccggcg ctgctccggc ctggccggat 180
 ggacatgcac gtccacatgg gctactgtgg ctctgctgcc ttcagggagc tcgcgggcaa 240
 ctaccacggc atccanngac acccgctctt c 271

<210> 6750
 <211> 364
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-C4

 <400> 6750

 atctcacacc ttctaagatc aaaccagcca ctcacagatg atcactgtca gtattttctc 60
 taccaagtgc tccgaggatt gaagtatgtg cattcagcac aggtcttgca ccgggacctc 120
 aggccgagca acctgctgct caatgccaaag tgtgaactca agattggaga ttttggttg 180
 gctaggacca ccaactgagac tgacttcatg atggagtatg ttgttactcg gtggtacagg 240
 gcaccggaac tcctgctcaa ctgccccgag tacactgcag caattgatat ccggtcagtg 300
 gggtgcatcc tcggtgagat tgctacgagg gaaccactgt ttcttggaag agattaagtt 360
 caac 364

<210> 6751
 <211> 326
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-D1

 <400> 6751

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gtacctgatt ctcggtgcta ccatttgtgc cgcatttgca gacccgctcg ttgatgctgt 120
ccacaacttc tctaacgcc aacacatccc gtccttcttt gtctcggttca tcggcctccc 180
gctggcaacc aattccagcg aggctgtctc ggccatcatc ttcgccagca ggaagaagca 240
gaggacttgc tcccttactt tctcggaggt gtacggcggt gtgaccatga ncaacacacg 300
gtgcctgggc gtgtccttag cgtca 326

<210> 6752
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-D2

<400> 6752

acgacgtgat gtcgcacgta aagatctcgg tctggattat cgaggaagtc atctcatgtt 60
cggataccta tagtgacctac ttccacacag acgccattca tctacttcca cgctcactca 120
tcttgacgca tccttcaggt tc 142

<210> 6753
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-D3

<400> 6753

ttagaaattg taaatatgca ttgttgatc ggcacctgaa tgaatgaaat aaacgaaata 60
acgctcttgc tc 72

<210> 6754
<211> 296
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-D4

<400> 6754

agcacaaga gaagaaggac aagaagaagg acggggagca caagaaggac ggcgagcaca 60

agaaggacgg ggagcacaag gagggcatga tggagaagat caaggacaag atcagcggcg 120
acggccacgg cgacggcaag aaggacggcg agcacaagga gaagaaggac aagaagaaga 180
agaaggacaa gaagcacggc gagggccaca aggacgacga cggccacngc agcagcagca 240
gcgacagcga cagcaactga accagctccc gccgcgtgca gtgcaaggga gatgaa 296

<210> 6755
<211> 317
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-D7
<400> 6755

ccgggtcgac gggggcctac agctgaacat cctcatgaca attcaacata cccctgccct 60
ttcggaaagg gaaggtttcc cactcatgga cacctagctg aatgcctgaa cctgaacctc 120
gtttttcttc ttcttcttct tcttcttctc cttggtaatt ccttgttgat tccttctggg 180
catgctatat tattgggtgc aacaacaaat tattgtcctt gttttgattt ccttcctgtc 240
aagttcatcc tttagtgcta gtactagtgg tacatcagtt tgatttagga aaaacacaag 300
cctctgctta acattaa 317

<210> 6756
<211> 427
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-D9
<400> 6756

aattcccggg ccgacgggac tgccagctcc ctctctcccg cggctgggtc tgctgccgog 60
caggcctcac cgccccaccg tactcccatc gctggcctag ccatccctct actcaccac 120
acctgctgtt attctccggc gacggcagac gaaccagtaa accctcgtac agtcgtactc 180
ccctccacgt gggaaacaac tgcagagtct tccctgcctc cgtgtcgttc ctttcctagg 240
cctcaccgtc gtccaccgcc ctgggtgctct cggcgcgggc ttatcaacat ggtcaacgac 300
tgacatgcat ctgaagtgga ctgtacgtgg agaggccgac agctgggtcc acgaccgcac 360
gcaaggaaat gcctccttaa taagccgcaa aatatgaatc tctcaacctg acatcaggga 420

cccaccg

427

<210> 6757
<211> 155
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-E1

<400> 6757

actccctata gtacgtcgta ttaagcctcg tcncagtggg gtacttggtc ctgctgatgt 60
agacttctgt gactcgctcg ggtgcgaggc tggagggcgt ctgcagctcc agcaccgtgg 120
gggtgtgcca aggtgccgga gtttacttgg ggggt 155

<210> 6758
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E10

<400> 6758

gtactagtct agaatgcccg ggccgacggg gatgatattg atatggcagt ttcattgcttc 60
cccgaaatgc tggaagaag aagtggcaat caggttggtg gcgctcttga ggtgcttgtg 120
tatgggctgt gcaggaagaa agaagcaaag gaagcggttca aagttctgaa ggacctgggtg 180
ttggaaaagg atgtgggttc ttggcaaagt acctacaagt atttgatcca caagttgatc 240
cgccaagggc atcttaaaga agcatttgat gtgctaggtt taatgaaaag taatggattt 300
ccgccttata tcaatccatt tatcacacac attttgaaat ctggtactgt ggacgatgcc 360
ctgggtctgc taaacgcaat gtcttcagag gagttcccat caagaac 407

<210> 6759
<211> 279
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-E2

<400> 6759

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ctatcttgag ttttgtgttg tgaagttttc tagttttggg tgaattcttt tgatagatca 120
tgggtacaagg agtggcaaga gcctatagct tcggattcnc atggcgcccc caagataatc 180
caaggacacc aaaaattctt gtattatttg gggatgcnc gaaattatcn cctctttttc 240
gtcaacttcc atcggttaatt tactttggag ctataattt 279

<210> 6760
<211> 273
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-E3
<400> 6760

catcctcatt ttataaaaaa aaaaatctct cgttcatggt tcatgaccac gaaccatgca 60
agtacagggg tgtggataag ctctcggtttt cgctccgctt gaagttggac gtgaaagaca 120
cccgatgaga tagcctcatg tgccggcgag taccacgcac gttgggtgga gttgcataaa 180
agaaaggcaa tgtgctaaag gtcttctcta ttttttttaa tactggcctt cttctgtttt 240
tacattcttc cctagtttga taatgcttct ttt 273

<210> 6761
<211> 436
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-E4
<400> 6761

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ttgactgttc atcgcccccac ctgaaagaa gcgaaacgcy tatacaataa cctaacacag 120
ctctattatg agacggaatg ttctattatg ggtgaagtct tacccttgt ggaaaatgtg 180
acaaagtttg agcaaagtac agaagcaagg gaagagaaca gtgtggcccc tgaggaacct 240
attttggact catcagattc gcatgaagca atggccatac catctaataa tgcaacaaca 300
actctccatg aagctgcaaa agctggcaat gttgaacaaa ctatggaatt gctccagcaa 360
ggtttggatt cntgtatcaa agatgaaaga agaaagacac cttacctgct ggcttccgac 420

aaagaagtag aaatac

436

<210> 6762
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E5

<400> 6762

ccgggtcgac ggggacgcca atgaccaggc catccagtgg ctggacggca accagcttgc 60
tgaggcagat gagtttgacg acaagatgaa ggagctggag ggcctctgca accccataat 120
cgccaagatg taccaggggtg cgggagctaa catggcgggt ggcattggacg aagacgatgc 180
acctccggct gctggcggcg ctggcccca gatcgaggag gtcgactaag cgagcacttg 240
taccagtctt accctaaagt tattccgttc gttatgttgg atgctactgc agtacgtggt 300
gttggatgtg atgtg 315

<210> 6763
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E7

<400> 6763

cgggtcgacg ccgaatggaa agtgtgcaga ggatgcaagg atggacgccc ggggtgcgtc 60
ttcgtcgaag cgacgtaatg ctggcagtgg tctgttcacg atcgccaaac gtatgagaaa 120
ataattggct tactcgtagt gtatcatgcc tgtctgtcat tatagcatgt tccgttcaag 180
tttatgtgta gctcacgttt cgacattttg cttggcaacc ctgtagtgca tcacttgcta 240
ctgcttttct atagatctgt tcgctgcaa aaaacaaaaa tacaacaga aataaaaaaa 300
caaaaaaaaa aaaaaaaaaa taaaaaatc caaaaaaaaa acaaaaaaaaa aataaaggaa 360
aaaaaaaaagg accacgtcaa gaaaaa 386

<210> 6764
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E8

<400> 6764

cgggtcgacg ggggtactgaa agacaagaag aagccgatca tcttctcgat ggctagggttg 60
gaccgtgtca agaatatgac tggcctggta gaaatgtatg ggcggaatcc tcgcctacag 120
gagctggtaa acctagtggg tgtctgtggg gaccatggaa aggtgtccaa ggactacgag 180
gagcaggcag agttcaagaa gatgtttgat cttattgaac agtacaacct gattggacac 240
atccgctgga tctccgctca gatgaatcgt gttcgcaatg gtgagctcta acgctacatc 300
tgccaaaatg aaggaacctt tgttcaacct gccttcc 337

<210> 6765

<211> 320

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F1

<400> 6765

gggtcgacgg gcctaaacac tgggtcaaag gtttctttca agaatcatga gagaacattc 60
aaggagtgga ttatttgga attagaacct tcagatttct tagaacttca cttggattta 120
tgtgaatata agcgtaagag gtctagtggc aatgctacaa aatcactgca ggcgatataa 180
taacgttgta gatagacgga gactgaatca gttgacacta ctttgatgtc tatcgagcca 240
atgggacaac atagaataga agaaccggaa gcaggttatc tatcttcacg agcaagttgg 300
cgtctgtaaa ctttcaccgg 320

<210> 6766

<211> 370

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F10

<400> 6766

gacggggaac ctatgggtct gcacaattac ttttcaggtt ctttattttt attttatata 60
ttatttttac catttcaaaa aagaaatgta aggacgaaat agaactgcca taaacttta 120
gaaattgtta gtgtatttca aaaatgttca acatgttttt ggaaaatgtt tcacatgtgt 180

taaaaaatta taacgtgttt ttgaaaaatg tttgtcttgc gcaaaaaaat tttacaccag 240
gtatttttaa acaagttcaa cgtgtgtgaa aaagttcttt tgtaaattac cctttcactt 300
atacaaacat gggtgtcatt tttaatccta aattttacac attaatttca aatataggcg 360
aaaatattta 370

<210> 6767
<211> 308
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-F2
<400> 6767

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gggcgggata tccggcgccg ggcctagcag cccaagtcg ctccggtgcc ttgcagagcc 120
gaaagtggtc aggaagatga ggggtggcgc cgagaagact ccgattcagc acgtccttca 180
gccgccgaac atcgctcct tgctcgccat catcatcggc atgggtccccg tgctcaaggc 240
cttcgtgttt ggggctgatg cgccgctctc cctctttcac gacagtttgg agaattctcc 300
tgctgctg 308

<210> 6768
<211> 297
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-F3
<400> 6768

ggtcgacgcg gaggacgacg tgggtgcgcc ggtgaacaag tgaagccgac gtatccatca 60
gcccattctca cgttcggggt cgtgtaatgc atgcatgcat gcacaaataa ttcgttcacg 120
ttcagggtct atgatctgga ctagtatttc acgtcgttgt ttcgaaatat cccaatgatt 180
agtaaactcc actacatcta cattctatta ccttttaatt gcgcgattat agcccaaagt 240
atgtttccac gagcacatat gatgctaatt attcataaat acaatcctat ttgcatg 297

<210> 6769
<211> 253

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-F7

 <400> 6769

 gacgggggat ataacgaaca caatcggtcg ctagcttcta ccgttctata accaactact 60
 cttgctccaa tctggtatct gtctctatcc ggttccgtaa gactgctgga taccagatcc 120
 cccactccca gcgagtatcc tgggtctcatc tcacattcat ctcgcctaag ccgtcttctc 180
 tccatccact actgacgatt actgcgggac agcgtggcag caactcattc gatgtcgtcc 240
 ggcgctcatc ctc 253

<210> 6770
 <211> 374
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-G1

 <400> 6770

 ggtcaaaaat atccgggtcg acgggggttct taagaactta atactctaga tgcattgctgg 60
 atagcgggttg atgtgtggag taatagtagt agatgcagaa tcgtttcggg ttacttgtcg 120
 tagacacgat gcctatatac aagatcatgc ctagatattc tcataattat gcacttctct 180
 atcaattgct caacagtaat ttgttcaccc accataatac ttatgctatc ttgagagaag 240
 tcactagtga aacctatggc cccgggggtct aatctccatt atattaatct cccgtcaaca 300
 agctatttat gtcgccgttt attttgcaat ctttactttc aatctatatc attaaaatac 360
 aaaaataatt aacc 374

<210> 6771
 <211> 298
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-G12

 <400> 6771

 cgcattctcat ctaattcctg gatattgttg cgtctatggc gttctccatg gaatcacgag 60
 tcgtaagcag caagtaggaa tctatcatca aagggtctaa cagagactga ttttaccaca 120

gggtgataga cggttattagt cagtggacag ggtctactaa gtggtattgg atcatgcttg 180
cataggtatc acattactct caacatagac agcatatgta ttgatactaa aatgcacagg 240
aacagtacgt gttaccttaa ccttgctgct gttattgaaa tattggatgt agtaaaga 298

<210> 6772
<211> 331
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-G2
<400> 6772

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tgcatatgca tgcacgcaac gcctgcccc tgtacatgag ataccgatcg aggtanacgt 120
aatgtgtgta cggaacgtgt gatgactgat gcttgcaaga tcagcanacc ttcgctgctc 180
cggtatcacc ttctgttctt ttctggagtt ctcttttccc tggtaaata ttaagtgtat 240
gttggtgagtt gtgacattga ttaactggaa aatgtatcaa tcagatccca ataaactgcg 300
tcggctttgc aaaaaaaaaa cttccaaggg a 331

<210> 6773
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-G3
<400> 6773

gggtcgacgg gcctacctat tatggcattt ccatagtcac tccgagatat attgtcatgc 60
aactttccac cggtccgtta ttatgacacg cttcatcatt gtcacattgc ttgcatgac 120
atgtagttga catcgatatt gtggcaaagc caccgttcac aattcttcac acatgtcact 180
catgcatcat tgcacatccc ggtacaccgc cggaggcatt cacatagagt catattctaa 240
gtattgagtt gtaagtaaat taaagtgtga tgatcatcat tattagagca ttgttccagt 300
gaggaaagga tgatggggac tatg 324

<210> 6774

<211> 351
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-G5

<400> 6774

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agctgagctc gttccagcag gagatcgtgc agctggcggc ggtgctgaac ggcgaccacc 120
agctaagcag cctgcaggag aggatcaggg agaggatgaa cgtgagggaa ggcacctcct 180
acatgaggag cgccgtgcgg cgcttcttcg aggcgggcat gtcggccaag aggatgggccc 240
tcgccgacga cgagcagatc gtcaagatga ggccctccct taccaccaga atgacctcct 300
cccctgcaga tcaagatgat agtccgtana gagcancgat gcatacatat a 351

<210> 6775
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G6

<400> 6775

ccgggtcgac gggaacatct aaattgtagc aatccaacct caaacggtcg aatctctgtg 60
cttaagtgtc atccctggat cggtaatgct gacacacaca gtacttgaag gatttataac 120
aaagtagcaa tcacacactt attacatcaa atgtctcaaa cgagaactta ttacaataaa 180
tatggcttaa gggcatctaa ataagataac agcggaaggc ttggaagata aagtgagtcc 240
atcaactcca acgccatagc tgagtgcacg acaaacgacc tagcgcaacc tactcttcgt 300
ctgaaaagtc tgcaacatga catgttggtta cccgaaaa 338

<210> 6776
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G8

<400> 6776

ccgggccgac ggggtccgtc aagaatggcg ggcctatgac cgagaccagc agatgaattc 60

cagccggtcg atgccttaca ttgttcgtga tcggaattca gaggaggact ctgttgctga 120
 gttgctgctg attacaattc agaagaggac actgttgcta gctgttgga tcacagagcc 180
 acaggcgtgc ctgcactgta tatcgatcatc ggctaggaat aggatggccg ggaaaatatc 240
 tggatgatacc ggagctaaaa tgctcccatg atacg 275

<210> 6777
 <211> 265
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-H1

<400> 6777

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 ccactggatg tggttttgag ggatttttgc agtgggggtt gtaggggtgct atgccgcgct 120
 gggttttgga tttgaaataa aacgaaggga gatgtgccac gctcttaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaagc ggccg 265

<210> 6778
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H10

<400> 6778

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 ggtgcagcgg gtggtggtgg tggaagacgc gcgagcaatt cattaaatct gttatcgagc 120
 tttgtttcga acgtcttctc aaggccagtg atcttctcca tggcctcttc aaaattgttc 180
 agcacatctt gcacctgttc agtcatcatt tgctgaaact tatcatgaag ctccctgttc 240
 gataaattct ccagtcfaat ctgcgtgggt tgtgatcctg gcatgggttag cagcaataga 300
 aacacacaag aatatgattc tacagactac gaacaagtgg tgggtggtggg tgtgatgagg 360
 acatgact 368

<210> 6779
 <211> 315
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-H12

 <400> 6779

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 ctcaagtaca gttaccgatg gacgaagacg aacgagggga tgcctcccgg ggcataacca 120
 agcttaggct tttcgatgct ctttaatttt accttggggg gccttgggca tctccaagct 180
 taggctcttg ccattcctta ttccataatc catcaaactt ttacccaaaa cttgaaaact 240
 tcacaacaca aaactcaaca gaaaatctca tgagctccat taatataaga aaacaagcca 300
 ccacttaagg tactg 315

<210> 6780
 <211> 55
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-H2

 <400> 6780

 gggtcgacgg cgaggagaat gatgaatggg ctgatatgcc gctttgtctc aacca 55

<210> 6781
 <211> 314
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-H3

 <400> 6781

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 ggagacgtac gatgggagtt cggccaatgc gaactgatac ggaggatagt gtacggcgaa 120
 ctgtctatgt ctcagacatt gatcaacatg tcaactgaaca gaagcttgct gaggttttct 180
 caaactgtgg tcaagtggta cattgccgta tctgtggtga ttcaaactca gtgatgcgtt 240
 tttgctttta tcgagttcgc cgatgatgct ngtgcaagag cagctctaac gcttggtgga 300

acaattcttg gttt

314

<210> 6782
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H4

<400> 6782

cgaggagtgcg gagggccggcc gggagtcacg tggcattcaa ggtcttgaag gtagattccg 60
cgtctgcacc cggtttgctg gctcaacgcg cgcgcgaccg gcttccgccc tgacagccac 120
catgtgcgcc tcctccgcac gggcggagac gacaatgaca cgctagttcc tcctcgccag 180
cgtgttgagg cacgcgctca tcctcctctt cgtacgctgc gtgcatagac gcggctccac 240
cagctgctcg cgtgcttggc agcgcggcgg catcgcgagg agggactgca gatga 295

<210> 6783
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H6

<400> 6783

tcgacgggga tgaatacaaa tatagaaaaa aagttctgta ataatgttgg aacaatgaaa 60
gtatttaatg attgtcttcc ttatgaatgg tggactgaga cgaacgatgg tcttttccta 120
aaaatctatc cccctagggg gtatgcgcgt actactttgt ttcaatgact aggagatttt 180
tggagttaag tatgtcagtt ctttatcact aatgtttagt ccacggatta tacgcactca 240
cactcttcca tcagtgcctat tctttcaagt tccgggcaag gtaaaac 287

<210> 6784
<211> 311
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-H7

<400> 6784

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 tgcgaactga tacggaggat agtgtacggc gaactgtcta tgtctcagac attgatcaac 120
 atgtcactga acagaagctt gctgaggttt tctcaaactg tggtaagtgt gtagattgcc 180
 gtatctgtgg tgatccacac tcagtgatgc gtttttgctt ttatcgagtt cgccgatgat 240
 gtcggtgcac gagcagctct aacgcttggg tgaaaccatt catgggtttt taccctgtca 300
 aaatttctgc c 311

<210> 6785
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-A1

<400> 6785
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 aacatggcgc ttcccctgct cctggcgctg gcggccctag tggcgctcgt gccgtcgggt 120
 tccgtcgcga cggcggggac ggctggtgcg ttcgacagct ggttgtcggc gaaccagaaa 180
 gaattcgcga tcaaccaggc gttgtacgcy aagaaggcgg tgggtgacac cggcagcacc 240
 atcgacgagt ccctgtccaa ggcygaggat aacaagacca cctacgtggt ggacccaag 300
 ggcggtggtg actacaagac catcacggcc gcgatcgacg ccatcccga gggcaacacc 360
 ggtcgcgtaa tcctggacct gaaacccggc gaggaccgtg agaagatctt cctcaaactc 420
 agcaagccc 429

<210> 6786
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-A2

<400> 6786
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 gteccggcgt ccttggccac tcccttgctt ctgctggtct tgggtgccat ggcggctcgc 120
 ggcagcaagg gacagaagac atcgaagaca cagcggcggg gagcaaaggc gaagacttac 180

gaaggaagga gaatgggatg gcggttccga gattggggaa ggcacggagg gtaaatagagc 240
agcgtgcccg cggttattcc tctttacggg gaaggcgcgg gccgcctctt ttcccattaa 300
ctgcgacatg acgcatgcgt gtgagaaccg cccacgcgat gacccccaca tcatgctcaa 360
ccctccacgt cgcgcgttca acgcggtt 388

<210> 6787
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A3
<400> 6787

aaccatattt taatctctca taataattac atgtaggacc ataataaaat tcaacaatgt 60
agccatcata taaaatcttc tcttcatgat ccacatgcat aaaagtttta taatcttcca 120
aaatagtggg attaacatca aaccacttt cataaaaagt ttcataagat tgaacactct 180
ccaaatatgt gggattactt ttacctaaag ttgacgctct tccaacccca ctttcaatat 240
taatgcaaac attattatca atagcatatt catcatgagg cataaacaat ttttcaagat 300
cataagaaac gtgatcactt caatcatgat cattgcaata agtagtggac atatcaaaat 360
tagcatcccc aagcttgggg ttttgc 386

<210> 6788
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A7
<400> 6788

gtcccgggcc gacatgggag acatgctgat gatggacagg ttccgtcaat ggcaggccac 60
gcacaaccgg tcgtacctga gcgcggagga gaggtgcgt cgcttcgggg tgtaccgcga 120
caacgtggag tacatcgacg ccaccaaccg gcgcggcgac ctacacctag agctcggcga 180
gaatgagttc gccgacctca ccaggagga gttcctagcc aggtacgcgt cgtcctacga 240
tggggtcggt gatgatactg gcatcacgtt gcctgtgggc ggtggcgacg ccgagctgtg 300
gtcgtccggc ggcgacaatg atagctcctt ggaggctccg cctcccagct gggactggag 360

atccaagggc gccgtcacac cgggtcaag

388

<210> 6789

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-B1

<400> 6789

gggtcgaggg ggaccacaag gagaagaagg acaagaagaa gaagaaggac aagaagcacg 60
gcgagggcca caaggacgac gaccaccaca acaccatcat cgcattccat tagcattcta 120
ccattttcct cggagagaag tagccagaaa cagcagcgcc atggccggca tcatgcacaa 180
gatcgaggag aagctccaca tgggtggcgg cagcagcgag cacaagaagg acgaggagca 240
caagaaggcg gaggagcaca agaagaagga cggggagcac aagaaggacg gcgagcacia 300
ggagggcatg atggagaaga tcaaggacaa gatcagcgcc gacggccacg gcgacggcaa 360
gaaggacggc gaccacaaag agaag 385

<210> 6790

<211> 418

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-009-Q1-E1-B10

<400> 6790

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tgaagcggat cgagaacaag atcaaccgcc aggtcacctt cgccaagcgc atgaacggcc 120
tgctcaagaa ggcctacgag ctctccgtgc tgtgcgacgc cgaggtcgcg ctcatcgtct 180
tctccaaccg cggcaagctc tacgagttct gcagcaccca gagcatgacg aagacactcg 240
acaagtatca aaaatgcagt tatgcaggac ctgaaactac tgtgcagaac cgagaaaatg 300
agcaactgaa aaacagccgc aatgagtacc tgaaactaaa ggcacggggt gataatttac 360
agcgaacaca aaggaatttg cttggtgaag atcttgattc attangcata aaagagct 418

<210> 6791

<211> 300

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B11
 <400> 6791

cggatctgca cagaggactc tgatggttgg tatagaaaat tttctgactg gggatcaagg 60
 ataatgttgc tactggagca gtttgtacaa tttttgacct tctttactga acattcgga 120
 atagggatgc caccctggat gcatctctag atctgtggat gtatgtgtgt aatcatcact 180
 gtatttaggg tttgaggcgc taatttagat gttcgttacc ttgatgttcg atggagaaca 240
 aattactatt tctgaaatgg cggtaatac acagagccct tcagtgttaa caaagaatac 300

<210> 6792
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B2
 <400> 6792

cgggtcgacg cgggccacca caaggggacc tggtaccat tactactgca gttcccgcgt 60
 gggttgaaga tgtccaaggc gggtaccaag aagatgcaga agctcaacgc ctactgacca 120
 aactcaccac ttcgccggag gggtttgatg gggtttgtgt ccaggacggc atcatccgcc 180
 acaggggacg agtgtggctg ggagcaaagt tggctttgca aagacaggtc cttgaagcgt 240
 tgcacacagg cgctatcggg gggcactctg gtttcaatgc cacgtaccgg cgtgtgcgac 300
 atctcttcac ttggccgagc ctgaaacatc acgtgaagtt attcctcgaa gcgcgccaga 360
 cttgcaagca agccaagcca gaaaggattc gttaccggg attga 405

<210> 6793
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B3
 <400> 6793

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 tcgcttttta tgcttagcta ggggcgttaa acgatagtgc tagttgggag gcaacccaaa 120

ttttctttat gtttctagtt tttttctcc tgtttaggaa taaatcttgc atctactctc 180
 tatttagatg tgtttttata ttttaattag tgtttggtcc aagtagaacc tataggataa 240
 cctacgatga tagttgattt gattctgctg aaaaatagaa actttgcgcg cacgaatata 300
 attttgtaa atcacaggaa cgtgcttttg agttgattct ttttctgct gttcaataga 360
 caaattgtcc atgacttcct attttggtag aagttttaga g 401

<210> 6794
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B4
 <400> 6794

ccgggtcgac gcgaagtgc aggaaaatag ctcaacagca tagccaaaaa tatataatac 60
 tcctatacat gcatatatc atagtgtgat ataactacat gcataggaaa caataggtaa 120
 aggatgatca acatgtaact tgccttggtt ctggttcata aagtcacact cctgacaata 180
 gctcgcgtcg tactccggaa aatctacacg tttcacacaa ttcaacaaat caatcaccca 240
 aacacgaata gaacccaaac aaaaccaaca gcaagaaaac cattttttaa actcaacaac 300
 agaatcttaa cagcacctaa attgctctat ggtcacaatg caaaaggaat cactaaattt 360
 cgttaaacgg ttgggaagtt acggcctcgg aagatttgat taaaatccga ac 412

<210> 6795
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B7
 <400> 6795

cccgggtcga cggggaattt gaatttaatt caaaatttac tgacaagatg aggagaatta 60
 agatacctct gcctccagtt gatgagaaaa agaaggtagt tgaagatggt gacaaggatc 120
 gaagatacgc aattgatgca tccattgttc gtattatgaa gagccggaaa gtcttggttc 180
 accagacact agtaatggag tgtgtggagc aacttggtcg catgttcaag cccgacttca 240
 aagcaataaa gaagcgcatt gaggatctta taaccagga ttacctgtag agggacaagg 300

agaaccagaa cgtctaccga tacttggtt gatcatctgt tctccatgct gggttcggta 360
 acagtatgac taccaagcta ctgctattta aggatgctat attttgtgcc aaggcacaac 420
 gc 422

<210> 6796
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-B9
 <400> 6796

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 ggatctgact ggagatggtg gccggcaggc tggagctcct tgcagcttcc atggcatact 120
 cttgcgaaga atagagaggg cgggagatac tagagtgaga aagaaaagag gaaccaaggg 180
 aggaagggga caggaagaga agggaggcga ggccggcctg ggggagctgg tcgccggcac 240
 gacgtccggt tgagggagag gcggcgggat cgacgcgcgg gcgcagaagc tcatgtgcgt 300
 gctcgcacac gagcgtgagg ctctttcctc ggttggttcc tagaggcagc gcaaggacga 360
 ggtangggat tgcgcgaggg acttggcggc ggggctgggc tgaaactgct gct 413

<210> 6797
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-C10
 <400> 6797

attcacgggt cgacggctac ttgaaatctc atttatggta gtgtgcatta atttgtaaga 60
 tttaacttgc aaatcatgac attgctcgca accttttgga atgtatttgg atatcactga 120
 atatcaatta tttcttcata aattaattat ttaaattcaa gacttgcttg cgctatagga 180
 tcccttcaac atggtacaag ttgcatgata cctcgtgata tcattgttta tcagttcatt 240
 tcctgttaat tagttaata tcttagttat cgctctacct taacagtacg ctgctacagc 300
 ctacaaattg tgataatctg tttgttcac ataatacact tacacttctg aatcatcgct 360

tggtacaaat attttaaggc atgcgatcta attcttgatt gttttgcagc ttactaaaa 419

<210> 6798

<211> 306

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C12

<400> 6798

ggtcgaaaat tcacgggtcg acggcggggg tggcggcgcc gaagacatga acgacgatga 60
ttgatcgtag cagcctcata gcactcttca cttgaaacaa gggcgtcctt ttgacccccg 120
caacaatagc tctcttgtag ataggcactc tccgggtccag gatagttgag tggatgatgt 180
ggtgttggtg taaatgtttg ctgtgggtaa aatgcgttca tctgatacta tggtttacac 240
atccctgttc ttggccaaag aaagaaagaa gacgacgatg aaatcgagcg gtttcgcgtg 300
tttttg 306

<210> 6799

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C2

<400> 6799

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gaaaagaaac ccgatatcac gaaacgacca cacgctccta ttgaagatga ggtggaatgc 120
aagaagccaa agatagcaga aggctcaagg tgccaaggag aagaacctga ggctggaggg 180
ataaagaatt cctcctgggt ctgatgacag gggaatgcag taaacaccag aagcatcaaa 240
actatgatct ggaacagtat cctgaataaa ctatcttctg gattatgaat gaattctgaa 300
gcatggggct ataagtgaat tatgtaacat ggatttgtaa ctatgggtgga tgttaaagtt 360
aacgttctat cagtaaatcg tgaatgcgtg cgc 393

<210> 6800

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C4

<400> 6800

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tgatccacaa ggcggtgctg aaagcctgaa gtgaacaatt ttgaattgaa tgtggccttg 180
tttaggttgt gtgcgtagta gactttctct atggatctga attcactttc actgtatggg 240
taaaactatt ctctctgctc aggtgggcat cgctgtttg ctttggggaac tcgtgtgcga 300
accggtctcg aaatactgta accacaggga atgacgaatg ctatttgctg tatttttctg 360
aacattattt gtattctttg gcatcaactc ttgctgaacc tggatgtatc tgc 413

<210> 6801

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C8

<400> 6801

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ggaagagtgc tgtctttgca ggatggagta gccatcgctc tgagaatcct gaactctggg 120
gattcaccgg ttaccatagg atcctgtatt ggtgtgaacg agccaactgc ctactagta 180
actcagagtt ttgttaaggc tatgtttgag cgagcaatgc cccatttgcg ttggtcatac 240
acttcccaga acatggagaa catgaagcgc atgtttcaca aggtccatgg catgcccac 300
tgctgtgggtg ttgtacatac aacgcgcac agatttggat cacagaaccg tgagcatgtg 360
gagaatggaa gcagtgtcat gcaagccggg ccttgatccg ggaagggggg tc 412

<210> 6802

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C9

<400> 6802

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gggccaaata tatggcccat ttggccactc ggcccgaagc atctcggctt ccaatgatct 120
 cggcaagcgg tgcattgcag acaacagtga ttgggtgctc ctgaaaagag taaaatgcat 180
 ccgtgggcat cgaacttggt tcgaaagctc actttgggtca ttgtacttaa gaatacgatc 240
 aatatgggtca ttatatacga cttgggggtga ttatacagtc actgcctcac tgtatagctc 300
 tgtattttgc tctgttgact ggtcaaacat cacaattcac aacaccctct ctctatccta 360
 tgagggtccc acttgtcagt tgacctctgg cata 394

<210> 6803
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D1

<400> 6803
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 taattaatag aactggtaaa gcttttgccc gtgttttaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggcgcccccc aaaaggatca 360
 aaactttata gcggtctaac aaaataaaa acccttctaa aagagcccc 410

<210> 6804
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D11

<400> 6804
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 atactgtcca tgagggtcgc atctaccagc tgaagctgtt ctgtgacaag gactaccccg 180
 agaaggcacc atctgttaga tttcattcaa gaatcaacat ggcttgtgtt aatcacgaga 240

ccggggcggt tgacccgaag aagttcagtg tgctggcgaa ctggcagcga gactacacta 300
 tggaacatgt cttgaccag ctgaagaaag atatggcggc gacgcagaac cgcaagctag 360
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 ac 422

<210> 6805
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-D2
 <400> 6805

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 gaggacacct ggcacatcgg tctcggggcg ttacattcaa gtacaagttc cagaaggccg 180
 ttcttgccaa cttctaaacc catagagttt tcttttgaag caccacactg gagtctaggc 240
 aagaccatgg cagcccat taccatggga cgcattggag aggtctacaa caggagactt 300
 aaggacatta tctaccaagt atgtgggcgc cgagacgagc aatgggaagt aatcagcacc 360
 aggaaggata gatccattgt agctttcatc caggagttaa accagcacat 410

<210> 6806
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-D4
 <400> 6806

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 tacgctccga taccctgttt gtttaaattg tttgttgta tcacctgtag cattagtaat 120
 gtttgcatgt tcatagatag acaactgtca gggttatatg anggacatcg tctttttaac 180
 ttatatatgt gttggaatca ttttgcttac atcaaagaaa ttttcagaat tttaaattat 240
 gttaacacaa taaaacaaat tggttaaggtc aatataaaaa atgttgatgg cattcaaaaa 300
 atgtttgtga catttaaaat gtttaacacc tattaataaaa atggtcaaac acatatattt 360

gcaaattggt agtcttgat ttt

383

<210> 6807
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-D9
 <400> 6807

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 tgggttgga ttccacgact tggctccga gtccatcctc catattttcg cgtttattgt 180
 tgtctgcgaa gccttcctcc gtgtcaccgc ccacttcggc ctgtggctga agaccttcaa 240
 tgtggagccg aagatgatcg gggggtgtca agcagagtgc ggcggggcgg ccgtaagcaa 300
 gagggctgat gcctcgtggc ccgagggctc cttccaagag gagctcggct tgtggttcta 360
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 acg 423

<210> 6808
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-E1
 <400> 6808

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 caacttttaa aggaacact tcacgttttc taaaccatag ttgtgatccc aactgtaaac 120
 tagaaaagtg gcaagttgag ggtgagacaa gagttggtgt ttttgctct cgtttcattg 180
 aagttggaga gcccttaact tatgactaca ggtttgtgca ttttggcgag aagggttaagt 240
 gccattgcgg agcaaagagt tgccaaggat acttgggcag ccaactaaag aatccaacac 300
 agaacgtctc tgcggctgcg gcgcttgaga ataagttgct cgtgcaacag ggcggctgct 360
 ctccttcaag ggtcaaaaca gagactcgcc tggtaccctg gaccaactg 409

<210> 6809
 <211> 380
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-E10

 <400> 6809

 ggctcgacggg gaccaggaac actcataaga aactacacta cacgtaaaca gttacaagaa 60
 cctacatata tgttcgttcc ccacgctgat gttgctcttg tgtattgctg ctgctgcccc 120
 tcttttttct catccacag aggcacgcag tggctgttat gcattctatc gccttgacct 180
 tcgcaatcct gaattctgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gtaaaataaa 240
 aaaaaaaaaa aaaaaataaa agaaaaaaat aaaaaagaat aaaaaaaaaa aaataaaata 300
 aaatataaaa ttataattaa tttaattaa aattaaaatt aaattataat gaattaaaaa 360
 aaaaaagggg gcccccaaaa 380

<210> 6810
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-E12

 <400> 6810

 ggtctaaatt cacgggtcga cgggagcgct tattgggagg caaccaatt ttattattat 60
 tctttctttt tgttcctgtt tagtaataaa taatttatct agcctctatt atggttgtgt 120
 tttttgtgtt taactagtgt ttgtgccaag tagaaccttt gggaagactt gggggaagtc 180
 ttgttgatct tgctgtaaaa aacagaaact ttagcgctca cgagattagc tacaactgtt 240
 tactggagag ttatatttag ttgattattt ttgaagatga ttaatagata aatccctcac 300
 gtccagaaat ttatttcaga attttttgag ttccataagt agacgtttga tatagattac 360
 tacagactgt tctgtttttg acagattctg ttttctatgt gttgtttgct tattttgatg 420
 aatctatgag 430

<210> 6811
 <211> 399
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E2

<400> 6811

cgacggggcc tccgtcttcc tcctctccgc ctaccaagag ttcagtgagt ttggaacgga 60
tggaggacca gcagcaaagt ctctgaagcc caagttcaac ctgtttgtca agcagggtgc 120
cgccggcatt gggatggcgg tgccacacat tgacatcaag tctgtcattg ccttcaccat 180
gtttcttaaa gcctttgggtg gtctcctttt catcatcagc agctcgttcg gagcgctcgt 240
actgcttggt tacctggcat tcataacccc tgctgtgtac gacttctaca actacgagat 300
ggaatcccag caattcgcca agctcttcac catgttttca cagaacctgg ccctcttcgg 360
cgcgctgctc ctcttcctgg gaatgaagaa ctccaaccc 399

<210> 6812

<211> 204

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E9

<400> 6812

ctccagttat attaccattc tcategggat taggtagaag atctgccagc ccctctgttc 60
atatcacgaa tatgtatggc tagataggat ctccctgccg caaacctcaa tttagttaa 120
aactctcagt ctcttcagta ttaaagtgat tcctgtactt tagcgatggt acacattgca 180
tagttaactt taccatttcc tctt 204

<210> 6813

<211> 277

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-009-Q1-E1-F10

<400> 6813

gtcaaaaatt accgggtcga cggcgttcag ataagaggac cctgtangtt gttcttgtac 60
atgcattcgc cgtgtcagca gccaggcgac gcggagggga tgaagggcag agagagaaca 120
tgtttctgtc tangtcatcc tgcttactta ngggaggtgg agggcccgac agaaggcatg 180

caaatattga agagggccga gactaatttg ttaacgggta tttttaaggt ttattgtctg 240
 tttatttcta ttttatttca actttctata catacat 277

<210> 6814
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F2
 <400> 6814

gggtcgacgg gtctgcaaca ttcaaactcg tatgtatctt gcaaactctct atgtctccct 60
 cctacacttg atgacagatg gaattgaagc gtctcttgat gtgtttgggt ctcttgatgaa 120
 atctggattc ctttgccaag gcaagtgcac caatattgtc acaaaagatt ttcattggac 180
 ccgatgcact aggtataaca cctagatcgg atatgaactc cttcatccag actccttcac 240
 ttgctgcttc taaagaagct atgtactccg cttcacacgt taatcccacc acgacgctct 300
 gcttggaact acaccaactg acagctccac cgttcaatat aaatacatat ccggattgtg 360
 acttagagtc atccggatta gtgtcaaagc ttgcatcgac g 401

<210> 6815
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F4
 <400> 6815

cgggtcgagc cgatacgacc aaaaatattg catacatgca tatttgtcaa gtgatttcta 60
 atgcacacta ttcaataatc tacttatgtt atccagaaca taaatacttc acacactttt 120
 gtgttttgtc caattgcacg tgtatgggac atttgtacaa tccacatatt aagataacgg 180
 aaaatgacaa gtttacggtg tgtccaaaaa gtcctctcac gtcacttttg ggccatgata 240
 agatatagtc caagtctctc acgttttgga ttcagattcg gactgcatag acatacctga 300
 ctcataacac caacaacttt ttcataccga ctccgaattg ggtgattctt tttttgttgg 360
 aaactacatt tcgtgctctt tccaacccaa tttgattcac cttcaaatt 409

<210> 6816

<211> 358
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G10

 <400> 6816

 ggagagaca gcagcagaag cagagcaccg cgaggatccc ggtctgggcg tggtagctgc 60
 tctccggcga ccaagccgaa cgtatgattt tcagcagcag ttgatgaaca aaagctcgat 120
 gatgagttgg gcagtctaga tccagctgag ggaagcttgg gtcgccgggt cgacgggacg 180
 accaccgcca gcagcaggcg gcaaacctgc tgcatttat gctgtctctg aaccgcaggg 240
 atgggttctc atccttttga tctccgaaga tggagactaa gagttaaatt ttgcgtgtga 300
 attatcgctg gttttttgtt cttgtgtcgc gtaagggtga ccatagcctg tcgatatg 358

<210> 6817
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G2

 <400> 6817

 cgggtcgacc cgggggtttta tcccgaagca aaacggaaag gaaaaaagga agagttaccg 60
 agagacagag gagccagggg agggggggtaa aatcaagaat aaattataac cgcacggcca 120
 agaacaaggg agggtaaata aatcgcccat cgcctcaccg cccgggaggg gatgatgtcc 180
 gaaagcgagg agcacgggtc gtccttgga aagattggcg acaagatcgg cgacaagatc 240
 catgagttca agaaggattc atcgtcctcg gactcggacg acgacaagaa gaagccgcat 300
 aaatccaaga agaagcacct gtttggcagg aagcatccgc tccacaacgt ccttggcggg 360
 ggcaaagctg ctgatcttgt gatg 384

<210> 6818
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G4

 <400> 6818

gggccgacgg gctcctccat tggacttctc gcattacatg gtgtttgaga aacggatgac 60
cgagacatag tctttcagaa gcgctagcgc cttacgaatg ggtagaccgt accaacctac 120
atccccata tctgctagtc taccactgta agagttcgca cgacttagtc aactatgcta 180
gagcccatag tagcttgtgg ctgcacacgg aagtttatag catgaataat ctcatgatcc 240
ccttgagcct ggggtggcgg ccaaaagaaa acagacaatc gctggaatag ctaggtgcct 300
caatccaccc agatgtgtgt ttaggttgcc accttaaata aaccattaat taacaatctc 360
acaactgtca tggatacact cacccaatcc acgtctacta gcataacatg gcataata 418

<210> 6819
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-G5

<400> 6819

acgggttacc ctagaatgcc acctccaagt acctttacag gaacatgatc acccagcaaa 60
tttcataggt aagtatcaac aaaattgtaa ctgcacatgt actgccaaact gaatcaatac 120
agacattacc aggtacgac gataacgatg gtcgccgtag cctctgtgag ccatggacgg 180
caactcgagt cagctcatta tctacgactg tggtaacttct gcgcttggcg tcaacttctg 240
ggaagcggat ccgagaccgt ggaatactat gcccggaag aggtccgtg tacgactact 300
actgtggacc ggctccattg catcatacaa ggtcgtcgat 340

<210> 6820
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-G8

<400> 6820

ccgggcccgc gggcaacatg atatgtatct tgcttggagc gtcattttat tttgttagta 60
tttgcttgat tttatttata atagtgtttt gtatcttttag tttcaattaa aatgtcaagg 120
atagccttta ccatgcttat tttgctagta tacatgttgc tgtttgaaaa cagaaagtgt 180
accgttggtg caaaaattcc ctagaaaagt cagagaatgg tataatgttg aatctttttc 240

atattgagct ctgataaatc ttctacagca tagtattttt cttataattt ttcgagttag 300
 ggaagtatga tgaatcttgc attctttaca gactatactg ttttggcaga ttgctgttat 360
 gtttgcattg tttgcatatg tttgcttggt taatgattct atttgaggat aggagtat 418

<210> 6821
 <211> 201
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-H10
 <400> 6821

ggtcgacggc gaagacgaaa gcacaaagga agtcgccggg ttctgggggt acctgctgca 60
 gattatctat cagacaaatg caagagctgt gaagcctaca gactgcatca tctgggtcaa 120
 caatttccca ttctcaccg taaaagaata cagtatggat tttctactga taagaatgga 180
 ctcggtcaaa gctgttttcc t 201

<210> 6822
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-H12
 <400> 6822

ggtcgacggc catgcgatac ttccaccttg ggtacacaca tgcgtacaca cctacatcga 60
 gagaaaatta tggacttgat tgcggttacc acgccctaata taattgagca ttaaaccaaa 120
 cacgtctaaa acctctcttg tgggtggaat gcatgagaat gaagcgcacc ctgtaaacta 180
 tgacggaggg aggagtagta tgaacgtgca aaaccaagta cgcgtatggc tagtcggtca 240
 acgcacttcc tcttggcata tctactgacat gtgggaccgg agtgtgagca aaccggtcac 300
 agttgacggc taaatggcca acccgccgtt ccttgagaga gatgaggagc aagaacacac 360
 agacgggctc gcacggaggg caagatatat tcgagcatgg ttgattgata tca 413

<210> 6823
 <211> 229
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H2

<400> 6823

gagttgagtt gaatgggtac cttccggcgt tgagagtttt gtttcttacg ctggtacctt 60
gaacatcaag cgttgctgaa tatgtgcctg cggttgctgt tgtatgtaat gaccacacat 120
tacaagtata tgagatcgtg caaagatggt gctgtttggg accttcaaag ttaatcggtt 180
gtcgcaatga ttcacgctta cgttccccta attgtgacat catagatct 229

<210> 6824

<211> 327

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H3

<400> 6824

cttcctcaca acaatcagaa tcatgatata acacgatggt atctcgctat gcctttctga 60
taccgcagaa cataaatgca gatcaccttt aaaaatgaag gactgactag acattgggtat 120
tcatggtgaa ggagatccag acaagtcata ctcatgttaa actaacagca gtgaatgcac 180
atgacagtgg tgctctccaa ttggtgcttt ttaataagag gatgatgaat caacatgaaa 240
ctaactagat gggcccttcg cagaggggaag catgaatttg tacagggtgcc atagctcggg 300
tttgaaataa ggggtgaataa tattttg 327

<210> 6825

<211> 252

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H4

<400> 6825

ttgactagga gaacttaatg aacaaggagc ttcatgataa gtttcagcaa atgatgactg 60
aacagggtgca agatgggctg aacaattttg aagaggccat ggagaagatc actggccttg 120
agaagacgtt cgaaacaaag ctcgataaca gatttaatga actgcttgcg cgtcttccaa 180
cggctgcacc tgccgcacct ctgcaacaac aactactaat aactccatgg tcgcaaacaa 240
acctccgctg aa 252

<210> 6826
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-H6

 <400> 6826

cccgggtcga cggggatcca aagaggatgg ctgggaactg tgctgaactg aagatggctg 60
 aagatcgtca gggtttgctt gagtttgctc catataaata aataaaaatg gcggtataaa 120
 tcatttagaa cgtctctatt ttgtgcgagc aaaattagtg aacttacggg acttgtcatg 180
 gaattgcttt gccttttggg aggcgactga atatcagtat ttgagataag gtaaaatggg 240
 gctgacatga tatgtatata tcgagattct agcttaatct atagtataaa taaatgatta 300
 gtgccatgtc aaaaaaaaaa aaaaaaaaaa aaaggtaaaa aaaaaattga aaaataaaat 360
 ttcaatagt 369

<210> 6827
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-A10

 <400> 6827

agtcccgggt cgacgaatac gcagatatga tgtcactgtc aaaaacgtct actgggctga 60
 tagtggtgac ctagttagca tcgcaagtga tacatcattc tacatcctga agtacaatag 120
 agatgttggt gctgcctact tggaagggtg aaagcctgct gatgaggaag gcgctgaaga 180
 tgcttttgag ttgcttcatg aggtcaatga gcgagtgcga actgggattt gggttggaga 240
 ctgttttatt tacaacaact catcatggcg cctaaattat tgcgttggtg gtgagggtcac 300
 cacaatgtat cacttggatc gccctatgta ttgatggga tatcttgcca atcaaagtcg 360
 agtttgtctt attgacaagg agtttaatgt cattgggtat acatta 406

<210> 6828
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A11

<400> 6828

gacgggatga gcaacacgaa gtactgcttc gccatgagaa caacgagaag cgcccccatc 60
aacgccagaa acacgacgta gacgatctcc aggatgtaga cgaaggcgag cgtgagcagg 120
ggggccttca gctgcgcctt agctttcccg aggagctcgc tgaaggtagc gcgctgctcg 180
ccggagtacg tcaagacggt ggcgaagagg aggaggatcc ggacggcgga gctgacgacg 240
accgcaaca gcaggtagcc cgcgcttacg agcaggagct ccttggtgtc atcctggatc 300
tcctgtacga gcttggcgta ctccaggctg ccggggctcg tgccgttttag cgccttgacg 360
tcgagctgga tctcgtcggc gaggggctgg acg 393

<210> 6829

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A2

<400> 6829

cgggccgacg ggttacgaac tgtaacgaga gggctttcgg tacatgcagc tattaccgaa 60
aacgattatc gacccttggc accgagaaag caacgacatc atattttacct ttttattttt 120
gtgtgtatct ttgccactct catTTTTgtgt ctgatatttc atgactttta atgactcaat 180
tttcaaaatg acatgacttt tcatgacttg tgttttgggc tagattatta caaatctcaa 240
cttctaagaa ctataaagta aaagaatgaa taaaagacc cgtcgcaaca cggagaagca 300
tgtattcata aaccccgacc cctctcgggt catgtcaaca tcgtagaccg tccgggcctc 360
cgtaagggcg cacggccgga aaaccccatc t 391

<210> 6830

<211> 345

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A4

<400> 6830

gatcactatg gagaatctca ttacgaagaa aaactagaca agatgcagca caacgacgat 60

gataatgtcg actgcggcgt tggctctcgga tgtgtacaga ataattcctc gctatcaggt 120
 ggtaataacg caccggaacg gacgctgttc ttgatgcgcg gaatggcaag gcaaagcatt 180
 ctttcaccga gcaatggtga ttgacgactt gattacagac aagatagatt tggcacattc 240
 ttacctgtaa agataatttg ccaaataaag ccgtttataa gctttgccac tttgataatc 300
 tcttgtactg acacaatttg aaagaattcc tttgagatct aaaag 345

<210> 6831
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-A5

<400> 6831
 cattcagtc tcatagcca cggcggcagg agtccgcacg caacaacgag gcggtcgagg 60
 cacgcgcgag atcaagctcg ctgcgagcta gctgccacgt aganacaacc gttgaaccgc 120
 agcgtcgtcg agcgcgccatc ggagaccgtc atggacgaca ccgatggcca cgcgaccgct 180
 cgcaatccgc agtcaatct ccacgcctga actactagta cattccaaca ccatgaagct 240
 cgatcacgtg cgctcttcc tgcacgcgtg ctactctcta gtcactcatc aaccaattt 300
 gtcacgtctt cacacttata tataagtacg gtatgcata aactttgcac agacgcatac 360
 tatttcgggg ttaa 374

<210> 6832
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-A6

<400> 6832
 cccgggcccga cgggaatagc attcgtgac tcttctgctc cgtggctcgtg gaggaaccac 60
 cagaaattcc gcagaaagaa tctctgatag tttggtggga agagtgattt ctactgaatc 120
 acttcaaagt tactttttct atacataggc tgtacatata tgatgtaact gaaaaacctc 180
 aggggagcca attccatgtg gtcctgaca gtgacacgaa cctggctctgt cacagtagcc 240
 cattgttggc agcttcataa gattgacaat tatagatcaa tcaacaataa tgcataagg 300

catgatgtat tgttgccagc ttcataagat tgacaattat agatcaatca acaataatgc 360
atcaaggcat gatgtaacga gctaataaat cgagaattc 399

<210> 6833
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A7

<400> 6833

gacgggtgat gcaagtatct aatgtatggt gtgactgtag atggagcttc tgccgtggag 60
acccttaggg aggaacttgc ccgagccaag gaacaagcca ggagaagtga tgcggccgcc 120
ctaaaggcgg ccgaagactt aagagccgaa caggctactc atggcaagag caaagataaa 180
atagccaaga tggctgctga gctgaaagat gtcgccggcc gatatgagct tcttgaaaag 240
gaaagccaag tgagagcggc tgacctgaag agagccatgg aggcagacaa ggaaacccgt 300
tctaaaatca gagcgggagg aggagctccg tcaagccaga tatatcacgg ctgggaagcc 360
ctttttgttg 370

<210> 6834
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B1

<400> 6834

ggccgagacc ctggaaagcc tccaggaggt gcacctcaga gtcaatagcg cagcagatga 60
aataaccaac ttcatagtag aagatttgaa ggccatcaag aagccgaaga taatcgtgga 120
tcatgtcatc accagctgaa atgtggcatt ctattggagc acttttctta ctcatcatcc 180
atctttcccc tctgtttgtc gagattaccg attttatttg cgccattcgt acttcaataa 240
aaacaggatg ctgccgcatt cctgtacacc gcaagactcc tattgttttt gcttttgaaa 300
ttcgcgctgt atttcgttat gggcttgtaa gttggtatcg gaggagtga ttttaacttg 360
aaactgcaaa tgttgggtcaa agatgtttta at 392

<210> 6835
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-B11

 <400> 6835

 cccgggtcga cggggatggc aagagggcgt ccggattcaa tagcttgtct cagcctgaga 60
 gaaggaacag cagcaagaag ctccagcgcc agctttcctt gcactattaa ttttagttgc 120
 ctaattcgtc catcatccat ccatcatttt gctgctgaag tgtattaatt cttggttctg 180
 cttactagat tccaccttat gcgctagctg ttggcgcaag tacctcaacc acctcaaaat 240
 ttagtagatt tgtaatatcg ttttcattag ccattagtct ctatgttgaa agagtctctg 300
 ttgaagaaat agctagctag gcctacaact tttcctatgt ctttttttgg aagtatttga 360
 tgtcttgatg ttttcttttg gaagtatttg atgtcttgat gttggaaaaa aaaagaagaa 420
 aa 422

<210> 6836
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-B2

 <400> 6836

 gggccgacgg ggtccgtaat atgttataaa gaccgaacac cttagggagt gttcggcatc 60
 gtgagtttgg ccctatatgc atcagctccg aatgaggtct ttggtcaaat gttgggtttg 120
 cccggctccc acgttttggg accttacgtt ctgttatatc ggctaaggta gcactgggag 180
 aactactgcg attgtgccct gggtcatccg gatgagcacc tcagtagaga aagccgaaaa 240
 ctgactatcg tgatatagcg agagactggg taaccactcg atgactcatc agaatttttg 300
 ggattcctcc gcattaatga agggccgttt cccgatcatg aacgtatgtg ccccatattc 360
 ggacgagcgc agaagtacca agggctatat agtagcccc 399

<210> 6837
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B3

<400> 6837

cgggccgacg ggctggctag gtcactcttc acattgcact gctcccagat ccatatcgac 60
atgccacgc tgtctgatga ggataaagat gttatgaaaa aatgggggtgc tccaaacaag 120
attgacttcc tctctctttc ttatacaagg cacgcagaag atgtgcggca agcacgggag 180
ttcctctcta agttaggtga tcttagccaa actctgattt ttgccaaaat tgagaatgtg 240
gagggcttga accattttga tgagatcctg gaggaagcgg atggtatcat tctctcaaga 300
gggaaccttg gaattgatct tccacctgaa aagggtgtct tatttcagaa gtctgtcttg 360
cacaagtga acat 374

<210> 6838

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B5

<400> 6838

ccgggccgac gggaagaaca aatctgagge tgcctcagag aagaaatcca aaaaaaagag 60
cgagccctcc cagccttcca caactgagaa gaaacccaaa gggaaaaacg accatggtac 120
cgagaagaag tccaaaggca agaaggacgc ctctggatac acaggtgcgg agaagaaacg 180
aaaagcaaaa gtagattcgc ccaagaaggc tggggccaag aagaaaccag agatgctaaa 240
gaaggaagag cctaagaaga atgacaagcc caagtcgtca gcgccggcca caactgatgc 300
ttacgtcgca ccgaaggaag agacgaagaa gccagaagct gccacgcccg atacctacac 360
cgcaccaaag gtggaaccaa agaaggaaga accaa 395

<210> 6839

<211> 390

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-B8

<400> 6839

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 agacactaac gggtttggat atgtgaactg agtaggcctc tggccttttc gcactaacca 120
 ccatgcggga ataagtatgg aactcaagg tegtacgatt ctccgaaagc tcttttgacg 180
 gcagtgggtg agcggcgcg cccagttgg acgggaacta gctgctcttg tattaggggg 240
 tgggtctgct ccaggttgcg tacataatgt gcaggtgtgc caagggcgat gggcccaaga 300
 ccctgagcg cttaggatgt agatcaacat gctggcctct ctgttgagcc taggtangac 360
 tacggcgtgt tgatcagccg aggtcgggca 390

<210> 6840
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-C1
 <400> 6840

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 aataactctg gctccttcaa tgtgaagaga aggtgggatg atgatgttgt attcaagaac 120
 caagctcgtg gagagactaa gacaccgaaa cggttcatca acgacaccat cagaagtgat 180
 ttccaccgca agtttctgca taggtacatg aatgatgct gctgtatgct ttacagtata 240
 catgctggaa gaggagcctg tgatgtttct gaattctgaa gatcaatttg tatgacataa 300
 ctgtaacatc tatgttacct gtacgggtgat atatttacc tggttctaag agtaaagaan 360
 agaaccact gtttgc 376

<210> 6841
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-C10
 <400> 6841

ccgggtcgac gggtagttg atcgataaat acagtatact cattaaagaa atttaaagga 60
 tgacccgat gcagtacact tttgtgtatg agcgtcgga ataggcccat cttgccgtcc 120

cggcacagag caggctcgag cttgcttaga ggagcaaatt accaacttct tctaccagcc 180
 tgtcagaagt ggtcgtcgct tagttcctat ggcagctagt catgagacga acaggaagat 240
 acaacacgta ggaaatgagc aaacttttgc tgggatgttc gtggcccat gtttggcagt 300
 cggtagctca gttcagactt cgctcgcccc gaaatcatgc accgacagga actagttatg 360
 cggatagtat tgctgaacat gaagctgacg gcacctgcan agaatacaaa tctattttaa 420
 aacac 425

<210> 6842
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-C11

<400> 6842

cccgggtcga cggggatggt gaagatgcga ctgagtatgc tcataagaaa aattctaacg 60
 ctatgacgga tccaatgcat tgcagtgtgc catatgtgga agactcgtgg agcttacgtt 120
 caccatacaa agacatctag gcatttaca atttgggaaa gattacatca tggtcgacac 180
 atcagatcaa aagtcacaga cccatatgtc tcagagcaca tctgctacat atgggtgggtcc 240
 agatggggca tgtagatgt cttcaaacat taggaggaat ggtggagatg gagttacaat 300
 agtcggtagt aacagttcag acatcgcacg tggcaaagtc actcacagga tcgcacgtgg 360
 tattgggata ataggtcatg cactgactat aacagtgaac tgcgatggta aagttctcat 420
 catgcaaac 429

<210> 6843
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-C2

<400> 6843

gggccgaccg gatccgtagt taattctcct catgcttata gtcaaaataa agcttttacc 60
 aaacatatca ttgatgcctt gatgcaatct tatgatgaaa aacttaattt ggaagtttct 120
 atacctagaa aacttaatga tgagtgggaa cctactataa agattagaat taaagatcat 180

gagtgttttg ctttgtgtga tttgggtgct agtgtttcca cgattccgaa aactttatgt 240
 gatattctag gtttccatga ttttgatgat tgctctttaa atttgacact tgcggatttt 300
 ccaccattaa aaagccaatt ggaaggatca atgatgttct cattgttgca aatagaaatt 360
 tggtgcccg agattttatc gttcttgata tagattttta tccttcctgc cccaataa 418

<210> 6844
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C3
 <400> 6844

ctgctacgcg ggcgcgcccc agcggccctt ggcggcggtt gccgcccccg gcgacatggg 60
 atgccagctc tcctgcgcca ggacttcctg ccaccgtctg gatccaggta atcagattgg 120
 cacaattcat gtgcgccatg aattagtaat gcgcaaccac tgcactcacg tctgatgagc 180
 cgacaacgac gatgtggtgg taaattcttt ttgcagaccg cgaggccgct gaggcctgct 240
 ccgggcagtg ctatgacggc tgcaagacca agactctgcc gaggcctctc cgcgcggggc 300
 ccggcatgcc caccacgtta ggcccgggtg tcgccgaact tccttcatcc g 351

<210> 6845
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C9
 <400> 6845

gggtcgacgg ggtgtggtat tactggcacg tctcatcaaa gcagagatca tgtcccttta 60
 ttacaggat ttctattaat gcaggcgtag ggaacctaac cgtcccctgg gtacaactcc 120
 ttggtgatag gtaagtttag agaccaggg ggaaacgccc ggtattctgg gcctttatat 180
 agagatccta gtctcgtctt ctcccttgcc gctcgtctct tcctcaaccc cggccacccc 240
 aagttccaac cctcgggtca caattgccac cagccttagt catgtccgga tccagccgtc 300
 agggccggtg ggtggcttct tctgtcatgg atgaggatat tgcgaagctc cgcatagcga 360
 ggtatctcac cccaaaaatc ttctatcagc ttccggcaca agggaaagtc ata 413

<210> 6846
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D1

<400> 6846

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gggccgacgg ggagacaagg ttgatagcat tggccgacta cctgctccca caaagccact   60
tcccttcaca tcggaggaat tagagtttac tgccaagcgt gaagctgcta aagtgatcgc  120
tgcataggag ggagtgc aaa tcaactgaaga agcccatccg aacttttatt acttacataa  180
gtcctgcacc gggcatttat aacaatcacc tgctcttccc tatagggtgca ttccttgtgg  240
gatccttgtg tttccttgtc atttgtgcta cgcgggaatg acattgtctt cttctggtgg  300
cagtagtacc tcctggtaag caccagggct ggcgggtaaa atatcctgta actgtctttt  360
gagagattag ttcattgttt tcgttaatat aaactttttc cc                        402
  
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<210> 6847
 <211> 268
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D5

<400> 6847

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acgggtcata aatagggact caggtctcaa gtgaggacta tagactggga agatgacgat   60
gcatgacagt tatctctggg aatagagaat tgtactactt agtactttac cgatgcagcg  120
ttcgtttctt ttttgtgggt agatctgatg tctcgacgta ctgagacata gcgagtgtct  180
ggcgggtgggt cattccattc ttttgggttc gtagttgcca tgtacatgtt ggttgatcga  240
ttccttaggt ttttgcgtcc tgcggtaa                        268
  
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<210> 6848
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D9

<400> 6848

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 acgcgctgtc gccgttccag cagcaggtga tgccgggect gtggaaggac atcaccacca 120
 agatccacca caaggtctcc gagaactgga tctccgccac gtcctcatc acccccgctc 180
 tcggcaccta ccagtatgcg atgtggtaca aggagcagga gaagctgtcc cacagatact 240
 aaagtgaggag ctttctccaa tattgcagca gtgggaattt ccatgttcta taatccacca 300
 aaagtgattt aacattttca gaatcacttc tagttgtacc cttttgctct ttccgttgca 360
 tatgcaatgc agcaagtgtg acttgcaaac ctattttgag gcctcaaag ttgagttgt 419

<210> 6849
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-E1
 <400> 6849

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 tgtaatgata atttgcataa aaattattca cgcatacttc tattttaaaa atattcatgt 120
 aattaaaaaa tagttcactt ttttttaatg aaaaatgac gtgcaattca aaataatatt 180
 cacatatattt aaaaaaatct tcttgtaatt tacaaagttg atcgtgtatt tttttcaa 240
 tttcatgtca ttttaaaatg tttacttata attccaaaat gttgacgtat tttcaaaagt 300
 gctaatacatt ttttacaaaa ttatactatg ttttgaacaa ttttcacaca tcattttaag 360
 gtttatgtaa ctgaggaaac atgaaaattg gttatttaat ttaatacaac aat 413

<210> 6850
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-E10
 <400> 6850

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 tcatgtgagt cgtggccctt gcatctgact caagatctgc gtcatgaggc gacagacagt 120
 ctgaggcaca tacatcactt cggtcacact gaattgagtt cttgggactc gagctgtctt 180

caacagcttc atcagcactt acatgtattg ctcggtctgc tcacgttcaa tgtatacgca 240
gcatgcaact tctggggctg actgagaggc anatccctca cgtacatcag tttcaggtca 300
catagttttt gagtaccatc agatatccat tcgatcacc atgctatcac atcttcagag 360
tttccggtga tctgc 375

<210> 6851
<211> 395
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-010-Q1-E1-E11
<400> 6851

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caatggcgca agtggcttcc aacagctaaa ttttggtatg acaccactca tcaactctcc 120
ttgaatactt ctccattcaa agctctctat ggtcaagaac caaacctcgg tggcctgccc 180
accttatctc tgaacctgcc agacaacaag gatgcagact tggactgggc aacacacaat 240
gacaggctac gtgctcaact tgcccaggca caaaacagat gcaaacagaa ggctgatcgg 300
aacaggacag agcattcttt caatgtcggg gatcaagttt tgctcanatt acagccctat 360
gctcagtcca tcgtggccaa tcgcccctgc caaaa 395

<210> 6852
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-E12
<400> 6852

gtcccgggtc gacggggatt tcaaaccgcc acccaaggag cctgataggc ccgtggatga 60
cgatgagctc ttaactatat ccacagtga gcggaatta gtgaaccgg gggatggcaa 120
acatgcagat ggggaagttc gcaagagaca aaagattgaa acaaggatta cttgtgccaa 180
gatttctgct ttgactaatc tggctagcaa acacaaggat acacttgct caagctcgcc 240
aagttgcgag gccaatggtg ttttggggga gcatgctaca cattctgatg agcatcaaca 300

ttccacagac actgcagaaa cctcacggca agttggcggg gattgtatca aagcaatggg 360
cagtttgtct agtgagaagg ctgtaaatac caccaaaac 399

<210> 6853
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E7

<400> 6853

gggtcgacgg gaagcatctc gctgtctgcg ctgacggatg cgctgcggac gctggggtcg 60
acctccgagg acgaggtgca gcgcatgatg gcggagatcg acaccgatgg tgacggcttc 120
atcgacttca gcgagttcat ctcttctgt aacgccaacc cggggctcat gaaggacgtc 180
gccaaaggtct tctgaatcag ttcatttcac ctacgcccgtc cgatccagga gccgatccat 240
ctacgtacgg ctctgtatat caatttcatt caactaccta ctccgggtccc gatccagcct 300
cagcttcacc tgaggccggc cctaattttg tttgatcaat ttttttgcta ctagtagtaa 360
ctagtgatga tcaactgttg accatttatt t 391

<210> 6854
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-F1

<400> 6854

atacccgggc cgacggggaa tggactatga aaagtttatt caggcacaca gagaaacaga 60
tgctgatatt actgttgctg cggtgcccat ggatgaggaa cgtgcaactg catttggcct 120
tatgaaaatc gatgaagaag ggaggataat tgaattcgca gagaaaccaa aaggagaaca 180
gttgaaagct atgatggttg atacgaccat acttggcctt gatgatgcga gggcaaagga 240
aatgccttat attgctagca tgggtatcta tgttattagc aaacatgtga tgcttcagct 300
tctccgtgag caatttcctg gagctaata ctttggaagt gaggttattc ctggtgcaac 360
tagcactggc atgaggttac aagcatacct ata 393

<210> 6855

<211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F10

 <400> 6855

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cgggccgatg gggaaccgca ccatgagacg tccaataacg atgtgtgggt caatgaaccc 60
aacatcatgg atgttcctta ctctgcattc cttaatcttc attctacatg tataatagca 120
gacacaacaa tatagttagg acatatatat agtgcaggca atatgaacga gatggggtag 180
aaattaataa atcacttaca gaacgtagca actgatgata gatttatcga gctcgcgcag 240
attgaaaagc tggaacaatt cactcagttc aatttgtaca tagtaatgtt tgaagtgatg 300
ctcatgtcca acttccgcat aaatatattc tttggcgttt ttatttttta tgtaaccctt 360
gtaccatttc agcagacctt tcatttgtgg aggtagattc ttttc 405
  
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<210> 6856
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F9

 <400> 6856

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gtgggcatat tttcatcagg gagtctgct tccaccagtc tggggattcc aagaggaaaag 120
tgaacccgac gcactaccgg gagccaaggt tttacaccaa ggtgtttaag gaatgccact 180
cctatgacca agatgggaat tcctttgagc tttctctggt aacttccaag tgcattggag 240
cttatgtgaa gagcaagaag aaccagaacc agatatgttg gctatgggag aaggtcaagt 300
gcacagaaga caaaggcttt cagagattcc tggacaatgt gcagtacaaa tccactggaa 360
tcctgcgtta tgagcgcgtg tttggggagg gttatgttag caccgggt 407
  
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<210> 6857
 <211> 404
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-G1

<400> 6857
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 tgatgatccc aatgggttacg agcttgcaag tgaacggtgg acaccagtgc acacagttga 120
 gagtatagtt ttgagcatta ttctgatgct ctctagtcca aacgatgagt ctccagcaaa 180
 tattgaagcg gctaaggact ggagagaaaa gagggccgag ttcaagaaaa aggtgaggag 240
 ccttgttcgc aaatctcagg aaatgctctg aaaaaggagg atcatatggg ggagtccaca 300
 agcactgcaa ttctcttgct ttcaccaa atggggcacctg atgccagcac ttgcacttct 360
 ccctgttta ttttccgttc agcgtcgggc gaatggtggg gttg 404

<210> 6858
 <211> 322
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G12

<400> 6858
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 tatagtttat cattcatgat ttagattgaa atcctacatg tcccattact cgagtgtgc 120
 ctttccttag gacgaatggt gcacatggag acatgaaatt tcgtgtatat gagattcaaa 180
 tttctgttgc ggacaggcat gggcagcttt cctgaaacga ttattacagt gcctgaagag 240
 tcagttatga gatcaactta tggattgcat acaacagatg acattattta catgtattct 300
 tgcttttatg actagcaacg gg 322

<210> 6859
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G2

<400> 6859
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 aggtcgagtc tgtggcggtg gcgaccggcc tttggtgcgc caggtcaggt ccgcgagctg 120
 ggtcacggtc gtggcgacga catcgacatg agctactccg gcgatggcga ggccgtggct 180

tagggggcgt gtgttggaat aagccacggc gtttattgtt gtcggacccg acgggcgcg 240
 cggatgcgcg cgggacgtgt gggtcgcact ggtgtagtcg ggctcgtcgg gctcgtcgga 300
 tgcgcgcggg atgtgcggga tggaccgccg tggcgagtgt gcatgctggt gaaaatgggc 360
 accggttcgt ggccgtgcc ag 382

<210> 6860
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G4
 <400> 6860

gggcccgcggt gtcccgaggt aatagtcgta ctagcgccctg ttacgccatg gaatgcttct 60
 gttaattggg aatcaactgg ccagaaatta aaattcaggg gggcgacgga cctctagcta 120
 aggtgaaata gtatatcagg agaaaccttg tgcacgcga gttactacga acatctagta 180
 tcaagaagaa gcggtcaagt agtgtcatct gtgggatgaa taccatgcaa gcagagacgt 240
 aagatttgca cgaataaggg aagaggagta ccttcttcgg ttgtcgggtg ggtcacctcc 300
 acatgtcgcg ccgatcttct tctttttatc ggggaaaccg atgttctgga tgggtgcaagc 360
 ttggacgaac ccat 374

<210> 6861
 <211> 299
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G6
 <400> 6861

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 gaatgtgcag cctattaaat gatgacatag cctcagtgat gctgcggaca tctttgcaaa 120
 cgtcacataa tattaccaga aaatccatga tcagcccaat ggagtactac aatctcttat 180
 aaaccgcaaa cattctgctt tgctcgtcaa tcagattaaa ataagttccc aatgaccgtg 240
 ggatgttctg aatgtggggg agaggtatat ccaactgctat catctatcta gccaacact 299

<210> 6862

<211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-H10

 <400> 6862

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ccccgggtcga cggggagcat ttgattttgc tgatgaacag taaaatcaaa agaaatagaa 60
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aaaactggtg gcgatatgac atcataggag ctcaggaaaa aaaaatagag tattgagaaa 180
ggttcatttt tttgatttgg agcactaatt ttgttttttc tgtcccgagc tcctcccatg 240
tcacattgcc atgaaacttt gcacgcacac agaaaacttg ttcattgtttg atgtatagaa 300
tttttagatt ttttgctggt ttattttatt tttagatatg atcgtgtcta gctatggatt 360
ttcactacaa aaccctagtg gataagattt ccctattgta tactctaggg gcaatgccc 419
  
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<210> 6863
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-H2

 <400> 6863

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tgagaaggag cgtcttgatg cagaactaaa gctggtcggt gaatatggac tgaggtgcaa 180
gcgtgagctc tggaggggtc agtatgcact gagcaggatt cgtaatgctg caagacactt 240
gctcacactg gatgagaaaa atccccgccg tatctttgag ggcgcggccc ttctccgtcg 300
catgaacgcg tatggtctcc ttgctgaggg ccaggataag cttgattacg tccttgccct 360
gactgctga 369
  
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<210> 6864
 <211> 367
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-H3

<400> 6864
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaaaaaa aaaattaaaa 120
 aattaaaaaaaa aaaaataaaa aaaaaaaaaa aaacggggccg ctcaaaaggt tcaaagctaa 180
 cttaaccttg aatgcaactt aaaatctctt caaaagtgtc accaaattta atttaagggg 240
 ccttctttta aaaacttcat aacgggaaaa accctggggt taccaaattt aaccctttta 300
 aaaaaaatcc ccttttccca atttggttta aaaccaaaaa ggcctaaca atttgccttt 360
 ccaaaaa 367

<210> 6865
 <211> 341
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H6

<400> 6865
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 ccatgggtgca cgtcaacttc gaccgcacct atgggaacac attcaggata ccaaggtttc 120
 cctattacaa ggaccgtctt gatgcagaac taaagctggg cagtgaatat ggactgaggt 180
 gcacgcgtga gctctgcaag gttcagtatg cagtgagcat gactcgtagt gctgcatgac 240
 acttgctcat actggatcag aaaaatcccc gccgtatctt tgagggcgcg ggccttctcc 300
 gttcgcata accgctatgg tccccttgct gagggccagg a 341

<210> 6866
 <211> 372
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H8

<400> 6866
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 gacacagtct ttcagaagcg ctacacactt tcgatggata gaccggtaca cctactttcc 120
 cctacatctg ctagtctacc ctgtaagagt tcgcacgact taatcaacta taccagagcc 180

cataatgggtt tgtggctgca cacggaagtt tctagtttga aaaatctcat gatccctttg 240
 agcctgggtg gcggtccaaa agaaaacagg caagtctctg attaccagg tgcctagaca 300
 ggcaatccta gaataaccag gtgcctcaaa tccaccaga tgtgtgttta agttgccacc 360
 .ttaagtaaac ca 372

<210> 6867
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A3
 <400> 6867

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 gtgagaatag catgaagttc aactactacg ttgaatgaat ttcagatgaa aaacttttaa 120
 aatctttgcg agtatgaaaa agatgatcaa cacgggaaag ttgcgtgttt acagcagctt 180
 tcgatcggat agatcacttg ctcaattccg gtgagtggat gtacagctag gatcagtga 240
 tagagatata cgagaaagca atcgcagtgt atcaacacag tgaagtcat ggtttcatac 300
 cgaggagttc aggtacttca cgcgatgcat ttttggcgaa tcagttttgc gataaacgca 360
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<210> 6868
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A5
 <400> 6868

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 acgagtttgc tcgctgtaaa tttcaacagt agcaatttga accttgatcat gaatgtcact 120
 atgtcagcgt tgagtttcat cactgggacg gtagcaacta ctgacatttg ggaatcgtag 180
 acttggaact agtgcaaatg ataaattaga tggccccgca gactttctga atgtcgagca 240
 cgtggaatat tataaggtgg aatgcctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aacaaaagaa aaaaaaaaaa aaaaaaccaa gacaaccaaa gaatcaaaaa 360

aaacagcaca aaaaaaaagc ggcccccta aaggt

395

<210> 6869

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A7

<400> 6869

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ggaagggcgc cagcatcatc cgctacaagc aatctagcca caggtcaaaa ccaaagatag 120

atgcatgttg agttaattgt aaaatcttgt catccgcatg ttggtgtcag caaggttatt 180

gttgcgtttc ttgggaatgt aagattagct gtgtgtttat gttgtagttg tgagatgatt 240

acccttgctc ctatgagtga tgatcttggt atagggataa agttcataag aaggttcgcc 300

ttaggttttg ggcagtttaa acggaatagc cggaccctgt aggtatcttg atgcataatg 360

atgtaaatca gttcatggtt ttgt 384

<210> 6870

<211> 337

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A8

<400> 6870

aattcccggg ccgacgggaa atggaggacg cctgctccag tggaaaatgg ggtggccaac 60

ggaagggcgc cagcatcatc cgctacaagc aatctagcca caggtcaaaa tcaaagatag 120

atgcatgttg agttaattgt aaaatcttgt catccgcatg ttggtgtcag caaagttatt 180

gttgcgtttc ttgggaatgt cagattagct gtgtgtttat gttgtagttg tgagatgatt 240

acccttgctc ctatgagtga tgatcttggt atacggataa agttcagaag aacggtcgcc 300

ctacgttttg ggcagtttaa accggataac cggaccc 337

<210> 6871

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A9

<400> 6871

ccgggcccgc atgggcgaca tgctgatgat ggacaggttc cgccagtggc aggccacgca 60
caaccggaag tacctgagca cggaggagag gctgcgctgc ttccaggtgt accgcgacaa 120
cgtggagtac atcgaggcca ccaaccggcg cggcgacctc acctacgagc tcggcgagaa 180
tgagttcgcc gacctacccc aggaggagtt cctggctagg tacgcgctcg cctacgacgc 240
tgccggtgat gatacaggca ttacgttgcc tgtgggaggc ggcgacgccg agctgtggtc 300
gtccggcggc gacgatggta gtccttgga ggctccgcct ccagctggg actggagatc 360
caagggcgcc gtcacaccgg tcaagtccc 389

<210> 6872

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B1

<400> 6872

cgggccgacc ggcagagtg ggatgagtat ggagaggagt agtatatata gtgacggctc 60
tctgaaagga ggtgataaag ccaagcttga ggaagcggtc aatcagttga tggcgatggc 120
gatggtgacg tcgcttgctg gtaagatact tgatgctccg gctggagccg acaggggtgcg 180
tgagactggt gatcaaggag tcttggtgtg tgctgatgcc tgacgctgtg ctgtagtttt 240
tctgctcctt tgaacgctgt ggtccattgg tctctatata gttctctcta ctgctttgaa 300
ctctaagtgt gtggttgacg gtggtagcag gttttggccc cgtgggagtg cttcgatgcc 360
gatcactcag agcgtgtttt ggccaacttg ctgcctctct tttccagttt gttg 414

<210> 6873

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B3

<400> 6873

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tgacagcatt ctaacctgtg atgtacccaa ggatgtggtc ggcaacatgg gcctttggac 120
ctttgatgac atgcccttgt ctgctggttt ctactgaggg aatcgaggtc gctgggtgcc 180
tgtatatata gacaaaggaa taagtattca ggacatcaac aagtgccttg gtctgggtgcc 240
tctagaattg agcagtagcg atgtcagtct atgggttatgt ctagcttaaa tggtcagggtg 300
actgagggtct tttgcaatag acctctgtct tgtgccccca gactatatta tatctatata 360
tgagaccagt atgtgatggg gaactgctta ttttgtattc atg 403

<210> 6874
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-011-Q1-E1-B4

<400> 6874

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cagcaagggg gcttgagtat ctccatggag ctgagagatc catcatctat agggatttca 120
agacatcaaa catcttgcta gacgcggatt ataatgctaa gctttcagac tttggcctag 180
caagaactgg acctagtga gaccaaacc atgtctcaac tcgggtcatg ggaacttatg 240
gctatgcagc tcctgaatat gtgatgactg gccatttgac agcacggagt gatgtttatg 300
ggtttgggtg tgtacttctc gagatgatta ttgggaggag ggctgtggac aagagccggc 360
cgagccgtga gcataaacta gttgagtggg cagcncct ccttgtccac aaccggaagc 420
tcttcagaat ca 432

<210> 6875
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B5

<400> 6875

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cgagcatcaa ctgtggttgt gcataattat ggttatgtca gacgtgttaa ttgtcgcaat 120
ttccaattgg tgggtactata tatatgtttg ccaaataatg tgtgcaccgt gtgcaactat 180

ggaacagcga agtggtaatc attttgtgag ctttgaaca gtgaagtgac acatatttgt 240
 cctaaaaaaa aaaaaaaatc aataaaaaaa aaaaacaaaa actagacggc ctagacattc 300
 aaatcaaaac gaaacagagc catgagaatt cataacacac actagcctgg aacaaaaata 360
 caaaacc 367

<210> 6876
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C1
 <400> 6876

gggccggccg ggggtgcctac agattcagct gtagatgaga ttgtgggttc aattcctcat 60
 ttagctgcag gaaccaattc ctcagaaggc ttgcctgcct catggcccat aagtgggctg 120
 gaaccaatgc ttcgctgaag caatttcacg ggcccaggcg caaaattagc acccccggga 180
 agcccagcca tgttgagact tctggcccag ctgacctatg aaacgatttt taatgggttg 240
 cgtggatttt cttataaata gtaccatctt gtttatatat cttaaataca aaatcatcta 300
 agcgggacga aactaagaat atcaccttgc tttaatagta ggtatagata tagatataga 360
 tatgccattg gcctttgggt ttgccccgtc tcttgagaaa ttagaact 408

<210> 6877
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C4
 <400> 6877

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 gctgcacagg gaggagccca ggtaagggtc tcccttttat ttatttctgt ttttgtaatt 120
 tctgacattt gttttgattt aataaaatat taaatcattt atttacotta tgccaatttt 180
 tgcaggagct agatatatta ttccagagct cttttataat tggcataata tttggacata 240
 tattaatata tataactaat atatttccaa tgcaaataatt tatgcattaa ttccaaatgc 300
 ccagaataaa tacctatgag ctcttaaaaa tattgggttg atttttatct ctgtccaata 360

tttttagaga gcaacatgag cattttcttg gacccttttg gagaaatttc tatttgggtc 420
att 423

<210> 6878
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-011-Q1-E1-C5

<400> 6878

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tcgaggcgac cctcgaatcc agcaggaacg ggtccaacgt gcagggctac ttcgtgtggt 120
cattcctgga catgttcgag tatataattcg gctatcgcat gggttttggc ctctatggtg 180
tggacttcga ctctgaggag aggacgaggt accagaggca ctccgccaag tggttcaccg 240
gcttcctccg tggcggcgac ctcaggccgg tggtctctgcc cggcaaggtc tattcccagt 300
gatcttcaca cttcttcaca cttccgtagc ccacgaagag gaaaatgcac taataagcct 360
ggatgggttag gtgttgtttt tgggtggaaa ttgagctttg cttgggcagt anggtgtata 420
ngcctctgct tc 432

<210> 6879
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-D1

<400> 6879

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atgatttgag tctttgcttt ttagtttacc acaataatcc ttgctgtaca caccttttgg 120
agagacacac atgaatcgga atttattaga atactctatg tgcttcactt atatcttttt 180
gagctagata attttgctct agtgctttgc ttatatcttt ttagagcacg gtggtggttt 240
tattttatag aaattattga tctctcatgc ttcacttata ttattttgag agtcttataa 300
aacagcatgg taattttctt tgggtataaa atttagtcct aatatgatag gcatccaaga 360

gggatataat aaaaactttc atataaagtg cattgaatag tatgagaagt ttgat 415

<210> 6880
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-D11

<400> 6880

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cgtccaatac gttctatgat ccggcaaaga agcggcgtgt gctgtggggg tgggtcggcg 120
agaccgactc tgagcgcgcc gacgtcgcca agggatgggc ctgctccag tcggccctc 180
gcactgtggt gctggacacc aagacaggaa gcaacctcct tcagtggccg gtggaggagg 240
tggagacgct ccggaccaac tccactgacc ttggcggcgt caccattgac cgcggtccg 300
tctttccact cagccttcat cgcgccacc agctagacgt cgaggccaca ttccgctcg 360
atccgctaga catcgccgtc gccaacgatg c 391

<210> 6881
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-D2

<400> 6881

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gctagggttc ttcaaatttt agttgcatca aattagttag ggttcatcta tgggtggaaa 120
tgaatcggat acggatgcg ctcagatggt ttcttagata ttgctcaa ataggatatgtg 180
cttgcccaag tggccgggtca tgtttgcagg ttacacctct gactggccta tgttttgccg 240
gagtgttgat tcatttccgt tccgacaaat ttcaggcgct cgatatgtcc tatttttagca 300
aaggatcatgc cggatttgtt cgtgaatttt ggcatgactt gtgccagaat ttgtaggaaa 360
tattgagtgc cccggatttg tgtgttgagt atcctggtag ttgtcttcga tcgattttc 419

<210> 6882
<211> 266
<212> DNA

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88

<210> 6885

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-E12

<400> 6885

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atatttgaag gatagaatct ggaaacatat acagggctgg atggaaaagt gtctatcggc 120

tggtggggagg gaagttttga ttaaatcagt cgcacagtct attccaactt attccatggc 180

atgttttaag ttgccccgtg gactatgtga gcacatcaat gggctactac ggaaattttg 240

gtggggtagc aaggagggtc agaggaagcc ggcgtgggta tcatggagaa ctatgtgcaa 300

acctaaacat atgggaggca tggggttccg agatattgaa ctttttaacc ttgctttact 360

ggcaaggcaa gtatggagat tgctccaaga gccggatacc ctatg 405

<210> 6886

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-E2

<400> 6886

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cgtccgcgcc acagacttca agaagattac cgctggaaaa gatgacaagg gtcttaagac 120

ttacgatcct ggttatctca aactgcccc cgtgcgttct tccatctgct acatcgatgg 180

ggatgaggga attcttcgct acaggggtta tccaattgag gaggtggctg aaagcagttc 240

atgtgttgag gtcgcctacc tcttaatgta cgggaatttg ccaactcaga gtcaactggc 300

aggctgggaa tttgcaattt cacagcactc tgctgttctt caaggactct tggatatcat 360

acaatcaatg cctcacgatg cccaccccat ggggtgtcctt gccagtgcaa tgagcacact 420

ttctgtcttc caccagatg caaacctt 448

<210> 6887
 <211> 356
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E3

 <400> 6887

gggtcgacca atcaacttac agtattcagg cttccaagac catcccttag gcccttaac 60
 tctgacgata aatgaaccct gtggagagac aacaagccaa aatcaaacag attaggggtcc 120
 acaactgttt caatgggaat gcagcgtca ctattgaaat atcatacaca tcacaaaatt 180
 agctattact gttatatcta gataactcat aatgaagaaa acctacacta aaggcaagca 240
 tcaccacaaa gtataccttg tcatagactg gaatgaaata gtagccatta ggagcacatt 300
 ggggtgctttc tttcaccaaa ccatcaacag tacacagctc aacctgattc aaaaag 356

<210> 6888
 <211> 343
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E4

 <400> 6888

gggtcgacgg ggatgagttc cgacagcacg acggcatggt gacgatcttg atgttctacc 60
 gtcgcatggc ttcgcctaata caccgctaca atattatcaa ggattatggt ggaggggggc 120
 accgcacaca gctaaaagat caatgatcaa atgttggtgtg tctgggggtgc cccctgcccc 180
 cgtatataga ggaatcgagg atggggcccg ccaacgaagg tggcactccc aacgggggga 240
 atccacatct aaaccttgtc atacactaga atgaaatagt acccattagg agcacattgg 300
 gtgctttctt tcaacaatcc atcaacagta cacagctcaa cct 343

<210> 6889
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E9

 <400> 6889

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 cgaaaaaccg agccaacaat gagtgcaccc atactaagac taccagagcg gtcttgccgc 120
 gtggaggaga tatcgtgtac agtggtgcac accagcactc tggaggagtc ggtgcttctc 180
 tgcattggcca ggatggacgc cttctatgtg aatcgcttcc aacttacggc acagggaagg 240
 aggcagggaa cgaggcaaac tacattgtcg gcatgtcgag ttgctaccct aagccaggat 300
 ccatcaaggt cagcgacggc gaggtgctga ccatcgtctc caactacagc agcgaccgag 360
 agcacaccgg cgtcatgggc ctggtctaca tctcgtggg cgaaccgcaa c 411

<210> 6890
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F11
 <400> 6890

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 ggtcagcaca tggaatatgc tagcaatgta acacatagag agtaatgaac agaaatatgc 120
 tatactacat gcatatatga ctagtggaaa gctctatggt tacagttttg cataaagcca 180
 atttttccct actgcaaagg aataaattta atttaactat catggtgggt gttaaactt 240
 gagaaggtag acaccctctc aatcccaatt gagcatcatc attaaacca acagattaaa 300
 ttaaagtaac atgatgagat tcacatgata atccagatac tagatactca aaacatccat 360
 aaccggggac acggctaacc at 382

<210> 6891
 <211> 269
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F12
 <400> 6891

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 tttgtggcaa agccaccatg cattatTTTT taccgtgtc actcttgatt caatgcacca 120
 tcccgttaca ccgctggagg cattcgtata gagtcatac ctggtccaag tttcgagttg 180

taatccctaa gttgtgatca caataagtgt gatgatcatc actattagag cattgcgcac 240
 aaaaggcgca caaaaaagaa agggggccac 269

<210> 6892
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F3
 <400> 6892

gggtcgaccg ggatgacaag caatcataac acaatacact acatgtaaac agttacagaa 60
 acctacatag atgttcattc ccaacgctga tgatgctcgt gtatagtgtc gcaggagtgc 120
 atcgttattc gcatctcaga gatgaacaca gtgggtgtaa tacatcttat ttgtttggca 180
 gtcgcaatcg ctcgttctat atctgaatgg ccgtgctatc ctatcttcga aggttcataa 240
 atgttgaaca atagggcgca tgcccaatgg aattgcgata ggtgtcccc tgccaatgac 300
 aatgaagaca cccgacgatg tctccaacaa gaacgatgcc cataaagcca tggctgtcct 360
 caaggtgctc gtcaacaaag tta 383

<210> 6893
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G10
 <400> 6893

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 cgagcgcttc gtggtccggt tcccggacgc catgccgctg gacaagggcg cgcccctgct 120
 gtgcgccggc atcacctgtt acacccccat gaagtaccac gggctgaacg ctcccgggat 180
 gcacctcggc gtgctggggc tgggctgggt cggtcacgtc gccgtcaagt tcggcaaggc 240
 cttcgggatg aaggtgacgg tgatcagctc atcgccgggg aagaagcagg aggcctcga 300
 gaggctaggc gccgacggct tcgttgtcag caagaacgcc gacgagatga aggctgcgat 360
 gagcaccatg gatggcatca taaacacggt gtctgcaaac atccccatgg gccctct 417

<210> 6894

<211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-G12

<400> 6894
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 ttttttataa aacatttttt acacacaacc aaaaatagaa taaaccatac aagataaaaa 120
 taaaataggc atattatata tcaaaatfff cagaaaaaga tttcctacaa cctaaacata 180
 tttatagcat caaatgaaat ccaaaaaatt caaataaagc aaagagtgc atagctctaa 240
 taaaatcaaa taaaaatcat tttaaaaaat accaaaatga tttcaaattt atttctctcc 300
 aattttctaa tgtagtgaat cattttaccc tattttccat atattttatt tttggtgaaa 360
 aataatttga ataaaaccca aataactcca aattgaaaat aattttaaag ggacattaaa 420
 ttt 423

<210> 6895
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G2

<400> 6895
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 ccggattgag cgacagcggc gctccgggag tcgtcacctt cttgggggtg tcgttcttgg 120
 tgagcttggg gtggatgtga tgctttgggt gcttggcggc ggattggtct tcagaagccc 180
 tgccggtctc ggcggagcgg tgcttcatcc tactcatgga tggcggcgta tctcggcggc 240
 gtggcgcagt ggagattcgg cgtcgatgt gtggcgatgg actcgcgcag gacgacgaag 300
 ctgtctggtg tcgtggtgac gtcgatagct gaggggccag acaaggtaca agcctcaatt 360
 tgatctgaag acggacctgt ggaagatggc ggcgacgaca cagagtgcg tctgaccgga 420
 ttatgccccca gacc 434

<210> 6896
 <211> 407

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G9
 <400> 6896
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 tgaaatatgg ctgccagccg gctaggccga catatatgaa tcgacgcgtt gggcgccctg 120
 ccgattcaaa tctaaaacat gagccggatc gctcgagtga tttttcgaag aggaaaagcg 180
 ccggatcgct cgccacggtg agcaaaggat ggacgcgaaa tgaatagagc tggcttcagg 240
 cacacggcgt ttctgcatgg atgcatgttc cccatgccgg gccggctccc caccatgcgg 300
 gcatgggctg gtgcaagtct gatacgtgcc caggcagtct gccagcgcgt gtgagttgtg 360
 accatcctca cttatcgaat taagattttt ctgaccctaa aaaaaga 407

<210> 6897
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-H10
 <400> 6897
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 gacgaacccc gtggttaagt cagaagtagc agtagcgcgt tacagaaagc gcgctactgc 120
 tacattagct acagcgcgtt ctgggataca cgctactgct actactttct cttttccccc 180
 tttatcattt agttttcttc acattttatt tttttccttt caccttaata tattttctttc 240
 attttcaatt acctttctat ttgctttcca ttttaatttta tacccttttag cagtagcgag 300
 tttagattaa aacgcgcgtc tacaaagaaa gtagcggtag cgtggttcga tataggctgc 360
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 caagac 426

<210> 6898
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-H11

<400> 6898

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gcaagcagat tcttggtctg ccagggcat cccactcac agatgtgatg gtgtgatagt 180
gataatccat tggctagtgc tcctcttggt gtgtgatgat ggtaataaag cattgatttg 240
tttgggtgccg ccatgcccta gttgtggcca gctgcaaagc agcagttcct tagtgtaaca 300
acagtcgata cattacgacc gtttgatggt acgcttggtg tattaataat ctttgatga 360
cctccaaaat aaatacaaat a 381

<210> 6899

<211> 346

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-H2

<400> 6899

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cgctcgctggc gaggtcggcg gcggtcgggt tgctgcgaat cgacgacgac ggctgtcggt 120
gcagaggacg aaggcaacaa cgatgacggc actgcggggc gtcggggcgt cgtttgtctc 180
agcaaagatg aagggcaggt catggcggag ctctggacc gtcgagagg acgaggggga 240
ggcgatagcc gcggtggtgc tcgtcggtag cgctggcgcg gtctggtgag gtggggaaca 300
gccagggaga gagagccagg gaaggggaaa gagctccang gaagag 346

<210> 6900

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H3

<400> 6900

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ggaggtcatc ttgcatgca acagggatga agaactggct gccaacatc ctttggatca 120

tggccacgag tttgaggaac accaatagat gtttagattgg tgttaccgtc gacagacaca 180
agagtcagtg acacaagcag tacagtacgg tgtcgttctt atatctcgct gct 233

<210> 6901
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H4

<400> 6901

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taacttgggc acataagtcc aggaaaattt ccactgatga gtgcaaagaa agaaccgcta 120
ggatgcgtgc taaaaaagat tgctttgtga aagcgtgttc ttctagtttt catgataata 180
atgatgaaga tctaaaagtg attgatgtgg ctccatttaa acctttgttt tccaatatga 240
atcttgataa atatgggact ggcgattagt caactttagt taaaaggcgt ccaatgattc 300
ggagttttta gatcttgatg caaaaattaa taaaagtggg attgaagagg tcaaaacttt 360
acatagcaat gaaccacta ttttggattt caaggaattt aattatgata attgctc 417

<210> 6902
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H8

<400> 6902

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atgttcagag tgtagataag aaacttatgc tactatagat ggatatatgg cattcggtag 180
atcgacagca agaagacgga tattcttttt ctgtaaaaca tgaccctttg attgatttgg 240
gttcactact aaactttcta atgcttcttc atacgactac cacctctgat taatctcctt 300
tggttcagt tatgtacttt tggtttgttt caactatttt tcaactgggt ttttgtgggt 360
gttggtagct ggaatgcaga gcatgaagtg gtgtaagggt gtgttgatgt gggacattgc 420

<210> 6903

<211> 277
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A1

 <400> 6903

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 cactcctacc aactggtaga ttcatgtttt tccctcattt gtctgccccat tgtttcagaa 180
 taattcacat tgacaacaat tacaataaag cagccactct agacgattct agcattcgat 240
 atcttgaaag caaattcata gcgcttctat attctca 277

<210> 6904
 <211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A10

 <400> 6904

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 caacacaatg gtgtcattcc ggtggtggat aattgggttc aactgggtgg taaccggcgg 120
 caaatgctc gaaaaagggtg ctccaaaact ctattgggta actgtcgttt ttctcgtgtt 180
 tgatgtcttc ttctgtgttt tttgtgttgt tgtggcctgc ttcattggaa ttgcactgtg 240
 ctgctgcttg ccttgtgtcg ttgcaatact gtatgctctg gttggccagg aggtgcatc 300
 agatgcagat attggcattc tcccagata taaatattct gatcccagtg agaatggaga 360
 aatggaacg gacgatgggg ttatgattcc taccctaat aatagtggaa catctacaa 419

<210> 6905
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A12

 <400> 6905

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taaaaacaat tggggcaatt attgaaatga aagaaggaaa cattagattt caattccccc 120
caaggaaagg catggaacac tttccaagaa ataaaattaa gttaccatat gaatctatca 180
tgagggctac ttatggatta aataccaaag atgacaatac ctagatcttt gtattatgcc 240
tagctagggg cataaaacaa tagtgcttgt tgggaggcaa cccaatttta ttttgtgttt 300
tttgtttttg cttctgtttt tcaataatta cacagtataa attctatagt aattatgtgt 360
tagtgtttta attactgttt gtgccaag 388

<210> 6906
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-A2

<400> 6906
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ctcggcttcg cgggaccagc ggacggcttc tttgggtggag tgggtgcttca tccatacatt 180
gatggcgacg gatcttgacg gcgtggcgta gtgcagattc ggagttcgat gtgggaggat 240
ggactcgtgc aggaggacga cgctgtctgg cgctcgtggtg gcgtcaatgg cagagagacc 300
tgacacggta gacgcaacag tacagctctg aagatggact cgtggcaggt agctgcggcg 360
gcctcatacc cggcaggcat cctgattgag gagtgcgccc gactggtagg tgcccca 417

<210> 6907
<211> 339
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-A3

<400> 6907
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tcaatccttt ctcttcccg gtttcggcac gggaatcatg caagtaccac caggatcgga 120
cgggccacct atggcatgct tttcaggatt ggcacgtcca ctatggcatg ttcatgacgt 180
ctcataacga cttcgtctga tacatctaca gctgttataa atctgaatgt gagtctcatt 240

cataacgacc acactttcag gtctttctcat ccagtcaata ccacacatac cagcaacagg 300
cttctcaata cttgacatca tatcatcggy acgtccac 339

<210> 6908
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-A4

<400> 6908

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accaagatga gggccttgag aagctggaag agaccgtgct gagcacaaca catattgcgt 120
tagcagtcac tgatgaactt gacctgcacg caagactgac tgatgacctt catgatcatg 180
tggttggtac aaactcgcgc cttcagcgtg tgcaacagag gcttgcgggt ctgaacaagc 240
gcgccaaggg cggctgctcc tgcattgtccc tgctgctgct caccgtcgggt ataattgatgc 300
ttgtggttag tgtctggctc ctcatcaagt atctgtaacc tctgccaac tcaaattcagt 360
ttcaagtgtg cagttcattc aaagacagta tggttac 397

<210> 6909
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-A6

<400> 6909

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tccggatgtg ttcaacatga tgctccagat cctggaagac ggaaggtaa ccgacagcaa 120
ggggagaaca gtggacttca agaacacgct cctgataatg acatcaaattg ttgggagcag 180
cgtgattgag aacgggggga ggaagatcgg gttcgacctc gactcggacg agaaggacag 240
cagctatggc aggatcaaga gcttggtgat cgaggagatg aagcagtact tccgaccaga 300
gtttctcaac cgtctggacg agatgatcgt cttcagacag ctgaccaagc tggaagtcaa 360
agagatcgcg gacataatgc tgcaggaggt tttcaccatg ctcaagacca acgacatcaa 420
cctgcatgtg ac 432

<210> 6910
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A9

 <400> 6910

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ggggccaagg gaaggaacaa actgaaagga ccaatggatt aagaatttgg ttttgaatt   60
gcctcaaggt gatcctcaaa ttctccgaat taatttcaaa taaactacta aaataatttg  120
ggaaaatgca accggaacc tgggaattgg gcatagaagg tcagttctga tgccagataa  180
tgtccacttg aaagagatga ttattagggtg cgcgcaagtg caattgtgca atgatagtgt  240
caattcggtta tttgttcaaa gtgacatgaa aacgaatatc ctacaactga gttggatctt  300
cactccaaca caacatcttt ttttgtggaa gaaatggtga caacttcact gcatatgaca  360
tgagtgtaat atatattaaa tctcatgttt catatgttcc aaaatc                    406
  
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<210> 6911
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-B10

 <400> 6911

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tacctcaatt ccaatcgaat tccaaaattg gaattccaat aggatacaac atacacaggg  120
tgtacgcatt acatatgaat gaaacatatt cattaaccta agcatgccct caattttcat  180
taatgagttg atattatatt aattgaatat cctttatgtt ttacgagatt tttgctaaag  240
tttcatttac acctaattaa catcgaatag accctgttac tgtgagaatt cttaattcaa  300
gagttatacg gagggactta tgtcaccaca nacagaaact aaagcatgtg ttggatttaa  360
agctggtggt aaagattata aattgactta ctacacccca gagtatgaaa ctaaggatac  420
tgat                                                424
  
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<210> 6912
 <211> 432

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-B2
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 atggtccaag tagaactgga gaagctcgca ctcaagggtc ccagcactgg tcagcaagct 180
 ccgtccagtc caagcgccgc agcggggcgac ctgaatactg tatgcgcccgc ttcgaccgcg 240
 tcggcatccg cagcaggcac gtcgaccgac aagaataaga actatgccgt gctggctggc 300
 accctgtctg gtctgaacgc cctgagctgg tacctcctgt caaagcctaa taatacggag 360
 gaggttgtcg actgatcggg ccatcctgca ctggattttt acttccttac tgcacatgga 420
 cctgcgcgat ga 432

<210> 6913
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-B4
 <400> 6913
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 acaaggcccc cttccacggc atgacctcct gcggcaacat ccccatcttc aaggacagcc 120
 gcggctgcgg ctctgcttc gagctcaagt gcaccaagcc cgacgcctgc tccggcgagc 180
 ccaccatggt caccatcacc gacaagaacg aggagcccat cggccctac cacttcgacc 240
 tctccggcca cgccttcggc tccatggcca agaagggcga ggagcagaag ctgcgcgacg 300
 ccggcgatgt ggagatcaag ttccggcgcg tcaagtgcaa gtaccgcggc ggcaccaagg 360
 tcaacttcca cgtggagaag tctccaacg aaaactacct ggccctggtg a 411

<210> 6914
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-B5

<400> 6914

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atcttgcgat gatcctagct atgcacatca ataaaaaacc gaagcacggt gggtcgggta 180
ttggtcggca aaaaaattgg agggatagga tcgatgccca taatagattg atgaggtact 240
atcttgtgga gaatcccaca taccgggagt cgtactttcg tcgccgggtt aggatgagca 300
ccgagttgtt caggcgcatt gcagagaaac tagcgagcca tgaccgggtt ttttcagcaa 360
aggaagaacg cctccagaga gctcgggcat 390

<210> 6915

<211> 374

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-012-Q1-E1-B9

<400> 6915

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caactcaatg ctgtggggtc atactgtcct tggttgcaaa tatcacgact tgcctgcgc 180
aatcatgac anacactatt cagaagaaat tcaagggttc ttcaaccag ctgctatatc 240
agtctgtcc ttaccaatca ttgacactgt ntcttatcgg ccggttcctt gatggattcc 300
tgactaacca aaacgtcttc gctttcaatt acacatctaa cgttgtgttt ttcaacgtcc 360
tgtcctgttt gaaa 374

<210> 6916

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C1

<400> 6916

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 tttaccccc cttttttgac tttctcgtcg atgcaatttg taaagtccgg ttgaatttat 180
 atgctgactt gacttgtgtg cgaagaaagg atgtttgacc caagtatagc ttctggtagc 240
 tgcagccggt gattctttca tatgttggtg accgatctgc ccaccgccgt ttgctatgta 300
 attcaaagag ctaattgagt gctgtactgt tcataccac tcagggttga gtaagagtaa 360
 cccaacgatt ctttttacca aataagatgc ata 393

<210> 6917
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 6917

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 ttatacccaa cttggatgcc aatcatatta ggacaagttt cataaccaa gaaaactacc 180
 aggcggttct aaagactctc aaaatgat ataatgaagcat gagagtcat ctatttctat 240
 aaaataaaac gaccgccgtg ctctaaaagg ataaaagtga agcactagag caagtgacaa 300
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 gactctctaa catttagtaa tttcagatcn tggatatttc ttcaaacatc aagcanaact 420
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<210> 6918
 <211> 352
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-C11
 <400> 6918

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ggtcggtcgc atcgctttct tccgcggcat gggcgggcag cggcagcgat cgggtccgtcc 240
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<210> 6919
<211> 394
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-C12
<400> 6919

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ccgcggcatc ttcttcagag gagccaaaga agctccagtc tctttccgta atcgctctta 180
gaccatggca gaagtgaat aacaccgcga cccggggcgac ctttcagccg gtgtcgccct 240
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<210> 6920
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-C3
<400> 6920

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gttaaggata aggattccgt tcctgcttgt gatgttcaaa aacctgcaca tgcatctgaa 180
aacattggca ccaatgattc acaaaacttg caatatcctt caccctaattg gacctactgg 240
gttgacctga tgagaacata agatgccaat ggcaatactc taaattttgg tgcgagtag 300
gagcgtcaaa aatggcacc agaggacgag ctctggatct gcttaagggtg ttacgcagtt 360
caataagtac ttttaactgtg ctgtgcagct tcttttcaga aacctgggac tgcaacttgg 420

gtgcagttgc

430

<210> 6921
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C4

<400> 6921

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gatgttgaga aacctgcaga tgcagctgaa aacaatgaca acaatgatgc agaagagttg 180
caatatacctt cagcctagtg gacctactgg gttgacctga tgagaacata agatgcgaat 240
ggcaagactc caatttttgg tgtcgaataa gagcgtcaaa gatggcaccc agaggaggag 300
ctctggatct gcctaaagtg ttacgcagtt caataagtac ttttaactgtg ctgtgcaact 360
tcttttcaga aacctgggac tgc 383

<210> 6922
<211> 423
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 6922

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ccccggggcac gtgcggtcgt gggagaccaa ggacagccag ctgacgatgg tggcggacga 180
cctgaagccg cgggcggtgc tgacgtgccc ggagaagaag ttgatccagc aggtggtgtt 240
cgccagctac gggaaccgcg tggggatctg cggcaactac acggtgggca aatgccacac 300
gccaaggcc aaggagattg tggagaaggc gtgcgtgggg aagaggagct gcgtgctggc 360
cgtgtcgcac gaggtgtacg gcggggacct caactgcccg nggcacacgg ccacgctggc 420
cgt 423

<210> 6923
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-C7

 <400> 6923

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 ttgaagacat ataaattcct tttctaagaa ggggcgacct agccagccgc caggacgacg 180
 gctccccctt accggcgacc tcagtcacgc gcggaggggg gtcaccggat ccacgcatgt 240
 ggatcatgta gctttaggtc ttaggtagct tactttttcg gtcgttcacg gtcttggtct 300
 gggcagcggc actaacgcgc ttgaatagat aagatcccca gctatcggtc ctatggttga 360
 atatccccgc tatcgggtccg attgaattga aat 393

<210> 6924
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-C8

 <400> 6924

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 tctgggcgcg ccagagcgt gcacgccaac tgttcggcaa aatgccaatg cgtgccacag 120
 ggcttgggtg aggctggcaa ttagcagacc taggttagga gtagctagga tcttagtgga 180
 caaggttact gggtcagtgg attaagtaca cagtgcacaa taagaatcat gtcaaaactg 240
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 caaactctcc agatcatatt ctctttagat gataaagagg gtggcaaggc tacttggtca 360
 agaccagaaa ctcgtttagt caaaaatttg agaaaaccaa ttttgggcag aaactaaa 418

<210> 6925
 <211> 194
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C9

<400> 6925

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ccgttctata caagtcattcc acgggatggg aacgctgcat agattgcctg tgcattgcga 120
tgcaactggca cgttctctcg tgtacaagat agtgtgtgag ccgagccgcg ctttgttgcc 180
cgtactgttt gtca 194

<210> 6926

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-D1

<400> 6926

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tacacctccc ccgtgcaaat aagcagccgc cgccgagtct gccttgccaa tactctctgg 120
agatgcaaag cctcccatgg gcgattatcc gaagcgtcag cagagtcggc tctgctgcgc 180
ctcgtctgtg gcttccagct cttgcccgc gagatgcccc tccactcatg gagtcagtac 240
cgtcttatcc aaatcaacat ctctataaaa ttttccgtga gaagcatagc aagctggatt 300
tgccgtgcct ctcttctgt tctgtacta cagcagccat ggataaagca gagaggatga 360
aggcagcaga ggagagcaat cccatggtag agacaagtgc aatacaagat gtgtattacc 420
agccaatcat cccgggtagc a 441

<210> 6927

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-D11

<400> 6927

cgggtcgacc gtctagtacg aaatctaggg ctgtttatga cacttatagg aatacccca 60
caaattgatt ggaaagaata acttgagggtg gttcgtaccc taccataatc tcttcatttg 120
ttctccgcta ttatttactt tggagtgact ctttgttgca tgttgaggga tagttatgtg 180

tctctggggtt tgcaacgaaa acttgggtata ttgactatac gaccattaac taaaatatgt 420
ctatgggttg 429

<210> 6930
<211> 437
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-D3

<400> 6930

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tcattttctcc agaccagtac aagaagaggt tcaggaaggc catgtcaaag tacttcctaa 120
ctgtccccga ccaatgggtca ccttgaatcg tcgtcacttg atgcctacta ttattttgcct 180
attcgagtgc aagatgggggt gatggcgact gggaagcggg acattgtttt cttttctattt 240
ttttcttttg ttttggttaga atagtcgata gatctgcgcc ttttgatatgt tatttttgct 300
cgcatcaggc tggactggga tcgctggaga gggcgtagg taaatgttgc ccccatccag 360
gcagagccta tggatcgata tgtgtatatt atatataaca atgctacact gtaacatgaa 420
atgaaatgca gacgaat 437

<210> 6931
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-D6

<400> 6931

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caggaacgcc ggctcgtcgc gatggctgac gccgcgagtg cgcttgtag agccctcacg 120
tgctgtgag agctcgttcg agggctccgc gtcgcaccgg gacatctgtg ctgtggctgc 180
ggcttcgcgg cgggacctcc ctagtgcttc cgccgccttg gtcttttctg cctgggttata 240
tgccaccct aaactcctcc taccgggtcat ggcggaacga cttgacagag aataccagtt 300
tgggtgggtga tgaggagagg aactgtgaag taattttcga gtgggtagtt tttatagccc 360
ggtgctaagt gtgaacacat attagtttga taggtgtgaa cagatttgca attata 416

<210> 6932
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-D7

 <400> 6932

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 tgtgcaagg tatgatatac gtgaacggtg aaggcatggg tcgctactgg acgtcattca 120
 taactcctgg caaagtcgct tcccaggcag tgtaccatat tccacggcca tttttgaaat 180
 ccaagaacaa cctattggtt gtatttgagg aggagcttgg caagccggaa ggcatactca 240
 tccagacagt gaggagagat gacatctgcg tgtttatctc ggagcacaac cctgcgcaga 300
 taaagccatg ggacgagcat ggaggccaga tcaagctcat agccgaagac cacaacactc 360
 ggggattctt gaactgcccc ccgaagaaga ccatccagga ggtagtcttt gccagcttcg 420
 gcaacccggg ggggtcatgc g 441

<210> 6933
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-D8

 <400> 6933

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 tgacatcaac aagtacttgc cagggccgca ctacgacccc ccgtccaagg agaggctcaa 120
 ggaactcatg agagagtgtg acatcgacat gaacggtctc ctggaccgcg aggagtctgc 180
 ggagttcatc cggaagctga ccgccgagtc actctgcgcy atcagcctca agctgatcat 240
 cacgctggtc gccgccccctg cgctggcgct ggcgaccaa agggaaccg agggcgctccc 300
 cggcgctggc aatgtagtgc acaaggtgcc caatgccatc tacgccgccc ccatcaccat 360
 ggctgccgtg ctcatccaga gatccgccc 389

<210> 6934
 <211> 365

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E1
 <400> 6934
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 caactgtggt tgtgcataat tatggttatg tcagacgtgt taattgtcgc aatttccaat 120
 tgggtggtact atatatatgt ttgccaaata atgtgtgcac cgtgtgcaac tatggaacag 180
 cgaagtggta atcattttgt gagcttttga acagtgaagt gacacaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaacacaa aaaaaaaaaa 300
 aaaaaaaaaat aaaacacaat aaaaagaaaa aaccacaaca aaagaacaca aaaacagacc 360
 cccac 365

<210> 6935
 <211> 312
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E10
 <400> 6935
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 agcaacctac cactaggagt gcatcatatt tacaagcgtc acagcacatt gcaaactctg 120
 gccttaccac aaagccacat cattttgatc gccagattc cgacgaattc cgtatggctc 180
 cacttgcgcc catgtctacg tccacgcaga cgccattaac aggatctgaa ccatctatag 240
 agtgccggat gacttaatta ctttttgagg ctaacccgac cttgagcgac tcaattcatg 300
 tgttgacaat gt 312

<210> 6936
 <211> 343
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E11
 <400> 6936
 gggtcgactg acggagatta ccccatcatc atgctcgcta cacgtggcat tgaccgtctc 60

gacacagcac tcctcctgcg cacgcggatt gccgtctcga tccacatgcg acagtgttgc 120
 tccgaggeat tcaccatgtt ggccgcctct tctcagcacg tgaccaacca tacactcttc 180
 ttacacatgc acggagtgtc tgcccatgta cacgtcatcg tcatcccagg ttacgtgtcc 240
 aaaatcctgc tgatcatcaa gaaggactgc attgcacttc agctgctgac cgttttcttc 300
 catggcaciaa ggatcgcggt aacacaacag ggatagacgt caa 343

<210> 6937
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E12

<400> 6937
 cttgaaggat ggtgatcctg gtttaacctt caaaggcggg aaaaaaatc aaaggcccca 60
 aaaaacggcc ccaagggtac ggcccccaa taatggacgg ttcaaccatt ggagcacctc 120
 attaaggtgt acgacggcga agatgaagca agacaagaca gataacatta atctgaagtg 180
 ggagtctaata agcatgtgaa tagatgatgt aaaatacatc accaaaaagt gctagatgta 240
 aaatgcatca accacgccgt ggccgctctg acggatgctg taaatactgt tgactctgaa 300
 cttaattgaa gaaactgaac ttacagtcg aaactgaatt ttactgtgga aactgaattt 360
 tactgatgaa actg 374

<210> 6938
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E2

<400> 6938
 gacaacgatg agaatgaatt agccatcctt gaattcatac atcttctcgt ggaaaccatg 60
 gaccgtcact ttggcaacgt gtgtgagctt gacatcatgt tccatctgga gaaagtccac 120
 ttcatgcttg aagagatggt gatgaatggt tgcacgtggg agacgagcaa acagaacata 180
 ttggcgccca tccagcttat ggagaaaacc tcgtaaatag tgtgtgaact caagagcgcc 240
 taggtgatgc ttagcctctt cctcccgctt tcacataga ttccccggtt gtgtgaggag 300

aaatgccgaa caactgctgt atgcatgggt ggctgtgttc acccgactgg aaaatgtgaa 360
 atgttctgta atgttgaaaa tgaagacccc atcattactt aacaacagtt ctgtaaaata 420
 atactg 426

<210> 6939
 <211> 373
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E3
 <400> 6939

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 cacctgctgc cccctcaggt acagaatcct gtatatggct ggtatgacag aaccactgct 120
 gttagtagta catagatagg cctgtaattt gtgacactaa ttctttttcc tctctccct 180
 gatgccaacg gcaaagcctt gttcattatt atcaatacga actacagact gctttagtagca 240
 ctagataaga gttgtgtatt cgatcccttt gagttttgat ggccattttc actgggacgc 300
 tcacatcttt gtatggctgg tacagtagca atgagaatcc tatgcccaaa aaaaaaaaaa 360
 taaaaaaaga aaa 373

<210> 6940
 <211> 273
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-E4
 <400> 6940

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 gaaggcgacg agatcgacgc catgcttcac cagaccggag ggtgctttcc tggcccttag 120
 aaggagcttg ctgcagcctg gctgttctat gtcgtatgct acctttagaa ctagagtaaa 180
 atgtaagaag tgaaagaact tgtgaggcta tggttctgtg ccatagcctg aagggggggtc 240
 tggagggtgaa acaacatcng agtactgttg atg 273

<210> 6941

<211> 133
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-E8

 <400> 6941

 tcttaccatc cggcgttaaa acttttggtc ctaaggcggg caccttaaca tcaagcgttg 60
 ctgaataagt tctgcggat gctgtgtat gtaatagcca gacattataa atatatcgga 120
 tgttccactg tct 133

<210> 6942
 <211> 386
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-E9

 <400> 6942

 ctgcaaaacta tcaagttata tacatatata cataaatggc cgcacaggag gcatcataat 60
 actttcaggc aaaattataa acacaacctt tataatttaa taaacattgt tcttacaatg 120
 ggaatacatg tctactagaac ataatatattt tcgagcaccg agcctctgtt aaacgagcgc 180
 cttcaaggac ttcttcaaag tagtgcccgg ccgatactcg gtctacggcc gaactgtggg 240
 ttgcaatagc ggtggcctcc atctctgccc agtatgtctt gacacaggca agagccatcc 300
 gcgcaccctc taggcacgcc gacctcttca tagcgtcgat gcgcggcaca gcaccaagga 360
 actattgcac taaactagaa taacta 386

<210> 6943
 <211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-F1

 <400> 6943

 gggctgcacgg gggagaagat attgggaggg gcaatggttt tggttgctgtc gaaataccat 60
 tcacaccacg tgcaaaacgt gtttttagagc tttcattgga ggaagctcgc cagctaggac 120
 acaactatat tgggtccgag cacttgcttc ttggattgct tcgtgagggg gaaggggtgg 180

cagctcgcgt acttgagtct cttgggtgctg accccagcaa tattcgtacc caggttggtcc 240
ggatgattgg tgagacaaca gaagctgttg gtgctggagt tgggggaggg aacagtggta 300
acaagatgcc gacacttgag gagtatggga ctaatttaac aaaattagcc gaggagggaa 360
agctagatcc tgttgttggg aggggaaccac agattgaacg tgcgtacaa attttgggc 419

<210> 6944
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-F10
<400> 6944

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ttttcacaaa ccaacacaaa atcctaattg gtaataagtt ggattccaaa aaccaaagat 120
tacaaaaagg ttcaagggtc aaaggaaaaa aacctaaggc tgtagggaat aagattcctc 180
ctgtgtctga tgacagggga atgcagtaaa catcataagc atcaaaaacta tgatctggaa 240
cagtatcctg aataaaactat tttctggatt atgaatgaat tctgaatcat ggggctataa 300
gtgaattatg taacatggat ttgtaactat ggtggatggt aagttaacgt tctatcactg 360
caaataaac aaaaa 375

<210> 6945
<211> 182
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-F11
<400> 6945

acggattaag aattcctcct gtgtctgatg acaggggaat gcattaaaca ccataatcat 60
caacactatg atctggaaca gtatcctgaa taaactatct tctggattat taatgaattc 120
tgaaacatgg ggctataagt gaattatgta acatggattt gtaactatgg tggatgttaa 180
gt 182

<210> 6946
<211> 372
<212> DNA

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 ctcccggtt cgagcatgac tccgctaaaa aattttaaac caaagatggc aatacctaga 180
 tctattcttg cttttatgcc tagctaggag cgtaaacga tagcgcttgt tgggaggcaa 240
 cccaatttta tttttgtttc ttgcttttta tttatgttta gtaataaata attcatctag 300
 cttctattta gatgtgtttt tatgttttaa attagtgttt gtgccaagta gaacctttgg 360
 gaagacttgg gtgaagtctt tatgatcttg ctgtaaaaaa cagaaacttt aacgctcacg 420
 agattagctg ccatttt 437

<210> 6949
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-F4
 <400> 6949

ccgggtcgac cggcagggag aggtgaattg gatacatcta aaatgtacca attccttttg 60
 atgtttaatt cctactccct ccattccaaa atatagtggg ctgcgcttc ccgaggtcaa 120
 actttgacca taaatttaac caatgagact gactgcatg ggagaaaaaa ttatataatt 180
 aaaaacttct tttgaatatg aattcattgg tataactttt gctccgccc cagtcgatct 240
 cgttggttaa atttatggtc aaagttgaag cacgggaata gaggaagcac tatatttttg 300
 atcgagaga gtatgttttt taaaaaaaa tagactagca tactaataaa atgcaagaag 360
 gcatatttcc ctttttgagg tgctgcggga aataactttg aaatattcat aggacaata 419

<210> 6950
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-F6
 <400> 6950

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 tcatttgctt caacttataa ttttaaattt tcaatttct actagcgcat cccctactat 120
 gcaagaattt ttgtcttgga taagataggt tctagtgtta tagatgatat ggaggtaaag 180

agagtttact tgaagacgga gcatgggtat actttcaacg tcaaattata taatggagac 240
acatacaccc attttgaatg caaaacttgg caagcactat gcaaggctta tgcatttgag 300
cctgatatgg ttatcacctt tgatattcgt ccggaagatg atattgaagg taatatagac 360
atctgggtcg atgtgcaaac gcctccagtt ctaccatttg gtgacttttt ctcaaccatg 420
catgcat 427

<210> 6951
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-F9

<400> 6951

tcctaaatc aatgaaagga cggtaaccct ggtaaacaaa aaatccaaac cccaacaaaa 60
cctaattcac ccctgggcaa cttccaaatg attgactgac ggccgggaat aaaacaacgg 120
tgctaaacag actcggcctt ggggtagatc cgtacggcga cggccaggcc cagtatcgcg 180
agggggacca agaactggag gatcttgatg actaactccg gaagggatta aagttattgt 240
taatgatgat gacttcagca ccatttttgc tgatattgag ggccctgctg gaactccata 300
tgagaatgga gtattccgga tgaagctatt gttgtctcgt gacttccctc actctctccc 360
aaaaagggtc ttctcgacaa aaataatcca tccaacat 399

<210> 6952
<211> 366
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-G10

<400> 6952

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aagaggacca aggacgccgt caagttcaag gtgcgctgct ccaggtaacct ctacacgctc 120
tgctcttcg acgccgacaa ggccaacaag ctcaagcagt cccctcccacc aggtttgagc 180
gtccaggagg tttaagcatc aagccagaca atgccttttc tagtagcggg aatgttctat 240
ccatcttgct ttagtaactg ttagcagggt ctccttgttt acccccatta agagagtttt 300

gatgtcncaa gactggaatg taatgttggg agctatgtgg ttgaacctgt caggattttt 360
gtgtaa 366

<210> 6953
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-G12

<400> 6953

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tgcatttaaa ggaggatacc accccatcat accatatcat aatcattcta atagcatgtt 120
ggcacgcaag gtaaaccatt ataactcata gctaattaag catggcacia gcaactataa 180
tctctaaatg tcattgcaaa tatgtttact tcataatagc tgaatcaggc acgatgaatc 240
atcatattta caaaaacaaa agaggtcgag ttogtaccag cttttctctt ctcaataagt 300
ccatcatata tcatcattat tgcctttcac tgcacgacc gaacggtgtg tataataata 360
agagtgcacg tgcattggac taagctggaa tctgca 396

<210> 6954
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-G3

<400> 6954

gggccgacgg gaccaaggaa aatacaagca ctggaacgag gggacagttt gtgtggcatg 60
gtggacgcag tgtaggata gcaaaggcta ccgaaaacgc aaataaatga ataggatgga 120
tgggtgatgt atagtgctaa gtatgggaag gaatagacca cgcctgggcc tttccattac 180
gtcttaattg tatagacaag tatgtgcaat cctgtctaata ctttaaccata aaaggagat 240
cacaaatata tttcatggtc ctcggtttag ggaattagga gtatatcaca atcccgatg 300
atattagtct gacagatatg aataaagata atctaagatg gatattaggt aatgattcat 360
gttcagtaca tatattatct tacagccacc ttctttactt gttcaggccc gcagctgatg 420
ctc 423

<210> 6955
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-G4

 <400> 6955

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 tccatcaggg aatcgtgctt caacaattct ggggattcca agaggaaagt gaacccgacg 120
 cactaccggg agccgaggtt ctacaccaag gtgtttaagg aatgccactc ctatgaccaa 180
 gaggggaatt cctttgagct ttctctggta acttccaagt gcattggagc ttatgtgaaa 240
 agcaagaaga accagaacca gatatgttgg ctgtgggaga aggtcaagtg cacagaagac 300
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 gagcgcgtgt ttggggaggg ttatg 385

<210> 6956
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-G8

 <400> 6956

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 atgtcatcaa aacgcatgac gattgtacgc ccgatggagt tatccacaaa gccattgccc 180
 tctggcacct tggccgctaa aaccgggtat gccacatcct tctccctgag acgccgcgtc 240
 tccaaagcac gaacactgtc atgcacactc tgcataaacac cagttgcagc attgaacata 300
 tttgtcggtg gcattgccct acccgccaca tgcaccctcc tcgagatata ctgcggtgaa 360
 cgtggcccgct cctgagcaact gatcatactc agtgccggct ggctcgcacc cttcctagtc 420
 tttcttttgg gtg 433

<210> 6957
 <211> 385

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-G9

<400> 6957

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aaatgttaaa tatcaggacc agcaggggaa aattaggagg tcatccacaa tggatctcct  180
ttgtgtctca aaccagcttc tccgtgtcct tggttattta cttgaacgaa actgaaactg  240
aaaactgtga ggatcgaact tcgatgtcct tagagctact ctgttttaac cttggtttac  300
catctcttct tctttcactg tatgctttgt ttttcgcogt caaagatgcg attgggccaa  360
cgcttctagt cctcangcaa gacat                                           385

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<210> 6958
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-H1

<400> 6958

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gatcagcggc gacggccacg gcgacggcaa gaaggacggc gaccacaagg agaagaagga  180
caagaagaag aagaaggaca agaagcacgg cgagggccac aaggacgacg acggccacgg  240
cagcagcagc agcgacagcg acagcgactg agccagctcc ggccgcgctc cggcagcagc  300
gtgcagtgta ggcgagatcg atgaacgctt gggagaagtg tggcatacat atatgttgca  360
gggtttggag cgtgtggtag catatgtatg taatgcgtga catgtctcat ggatcntgtg  420
atgtataata attagccggc tgcactgca                                           449

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<210> 6959
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-H10

<400> 6959

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 atcataccta gttcaatctc gttatcggca agtctctttg ctctgtccgt aacgcatcat 180
 cccgcaacta actcattatt cacattgctt gcaaggctta tagtgatgtg tattaccgag 240
 agggcccaga gatacctatc cgatactcgg agtgacaaat cctaactctg atctatgccca 300
 acccaacaaa caccttcgga gacacctgta gagcgtcntt ataaatcacc gggttacgttg 360
 tgacgtttga tagcacacaa ggtgttcccc cggatttcga gagttgcata atctcatagt 420
 cagaggaata tg 432

<210> 6960
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H11

<400> 6960

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 ggccttacca cggcagcgga ttaccatac acggcgggtga ggggcgcctg caaccgcgcc 180
 aagtccgccc atcacaccgt caagatcctt ggcggcgggcg tgatcccgcc caggaacgag 240
 cccgaaatgc aggtcgccgt ctccgggcag cccatcggcg tggctatcga ggtcggcagc 300
 ggcattgcagt tctacaagag cggcgtctac tcgggcccct gcgggacaaa tcttgctcac 360
 gccgtcacca tcgtcggcta cggcgtcgat gccctactg gggc 404

<210> 6961
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H2

<400> 6961

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ttggacaaca tgaacaagag caaggagcat gggttcctcg gcttccgtaa caccgtcaac 180
tccttcaacg cttggatcga taagatgaag gcttccaagg ttgttccgtg atgctcttat 240
tgtctagtat ctattgttgt ctacagcata tgctactgca tcccatttta tcaactcattt 300
ataaatttac ttctgaaatt agttacatcc catcatttgt gccaaatgtt gtaatctaga 360
ataagccaga accaaataaa gctcccaagt tgtaaatcga ttatctgtgc t 411

<210> 6962

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H4

<400> 6962

gacctccgca gacactgtgg acctcaagcc aacgaacaac gacactggcg aactcatcat 60
gcaccttgag tgggttaacc tcccccaag catgtcacag tgaattgatt tgacttgcaa 120
agggaggggca gctaattgtc gccttttctg cttctaattgt tgctcctcg atatatgatc 180
tatgaagata attaagcgat gcctagctca ttcgttacat aacaccacc gtaatgattt 240
gtggattaca acagcatggt gagtatagaa taggagcatc ttcgtgatga gatccgcaca 300
tcatcacagt ggggtgctacg taatgcatgt gatatactta tgctgctggg ggtaatgcat 360
gctttcagtt ttggttctgc atatattgta t 391

<210> 6963

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H6

<400> 6963

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gcttttccga tccagtgaat tagtgctggc tgccaaacgt ttgaaagagt agattatttt 120

gccctaaaag ttaacataaa agatatagtg ttgggtagac atcaaagttt agtcaaata 360
 acaaacaata ggacatagta acattttcag attaattcaa aaacag 406

<210> 6966
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A11
 <400> 6966

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 caacatgaat gcatccctca agccattctc ggaatggatg ttatctgtca agcaaaatct 180
 gggatgggca agactgctgt ttttgcctc tcaactctcc agcagattga tccggttgct 240
 gggcaagtag ctgcacttgt gttatgccat acacgagagt tagcatacca gatttgcaat 300
 gaatttgaga ggtttagcaa gtacctgtca gaaacaaaag ttgctgtctt ctatgggtggc 360
 gttcacataa aaaaaca 377

<210> 6967
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A9
 <400> 6967

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 caatcaaacg ggccggttgg attaccatgt ccgttttgat gaaaacccca ataagaggac 120
 acgatctctg ctttgacaag acgtgcaaata aaaactgcat cttgaaacat ggagcaagag 180
 gcttaaaaat agttcgaaat aatgaccggg cagcgacgtg atgtgacgct acaaaagttg 240
 tcagtagatt ggactcaaga aatattatac tctctgcgga tatatgtggg acttggtttg 300
 cagagccgga cacgtttttt atgttcgaag gctattttgg ag 342

<210> 6968
 <211> 367

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-B11
 <400> 6968

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 cgcttcatca catgtcatat tgctttgcat gatcatgtag atgacatcgt atgtgtggca 120
 aagccacctt tcacaattca ttcatacatg tcagtcttga ttcattgcac atcccggtag 180
 accgctggag gcattcatat agagtcatat tttgtgctaa atagttagtt gtaattctag 240
 agttgtaagt agataaaagt gtgatgatca tcattattag agcattgtcc cagtgcagca 300
 aagatgatgg agactatgat tctcccacaa gtcgggatga gactccgggt gaaaaagcat 360
 gtgttta 367

<210> 6969
 <211> 336
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-B5
 <400> 6969

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 tggctagcta catgcgtggc cgggtgatct ttcgtgtgcg catgctagtt ggtagttgg 180
 ctttgtggcc ggtgcgctgt gtgtgcatgc acgatgctat gcaagtttgt tagtcacgga 240
 tagactcccg ggaggtgagc cagatgtgag tggccgggtg tgacggccaa ctaagtgggc 300
 gtgcatgcaa gtcattggtgt gcgtgcgtgt gtgtaa 336

<210> 6970
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-B9
 <400> 6970

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 tcttcataga tgaaatcgat gccattggta caaagcgttt cgacaggtac aaatcttttt 120
 ctgattccag ttcattgtatt tctgcacttt ctcagctatt tgctcaaatac acattctttg 180
 gttgagagta cagtgaagtc agcggagaca gggaagtgcaggactatg ttggagttgc 240
 tcaatcaact tgacggattc agtagcgatg aacgtattaa ggtgagtgtc tttatccatt 300
 ctaaggacta atcactactgg tcttaaaaat cgttctcaaa gaaacagtaa caaccatacc 360
 tttctatttt ttcaggtg 378

<210> 6971
 <211> 62
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-C2
 <400> 6971

gactcccgagg cgcaggggga tctccacagt gaggccgacc aggcctctgca tgcgacccat 60
 ac 62

<210> 6972
 <211> 359
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-C4
 <400> 6972

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 aacagccaat gcatgggtcg ctactggacg tcattcatag ctcttggcag agtcgcttcc 120
 caggcgagtg ttgccagatt cgacgggcat ttttgagatc caggaccaac ctattgggtg 180
 tatttgagga ggaccttggc aagccgggag gcatactcat ccagacagtg acgagagatg 240
 acatctgcgg tggtcatctc ggagcacaag cctgcagaga taaagccatg ggaggagcat 300
 ggaggccaga tcaagctcat agccgatgac cagaacactc cgggattctt taagtgcc 359

<210> 6973
 <211> 376
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-D12

<400> 6973

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tcgtgctggc gcaggcgaga ggaagatctc cagcctaccg gcgtacctcg ccacggccgt   120
ggagggctgc cacatcacgg gcgacatcgt gcggcgcttc gcggagatgg agctctcgcc   180
gctgctccgt tggctgctgg gcttcagagg gtccaggagg cgcctcctca ccgacgacct   240
cttcatcgcc aagctcgcca tggagatggg cgtcagcatg atcgccaaga ccgctgccga   300
gtacgagaag agacgggaga acttcgtcaa agaaattgac atcatcatcc ctcatgtggg   360
tgaggtcgtc attcaa                                     376

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<210> 6974

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-D9

<400> 6974

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acgggggatg ccacgggatg catccctctt ttcgtcttcg tccaacgggt aacttactcc   60
gaactaaaat tttaatcaca acttatatgt ttttgcttgg agcgtaattt tatttccttt   120
attttgcttg ctgcttgagt aaaataccaa gatataaatt tattaaatgc tagagagtct   180
tcacatagtt gcataattgt tcgattactc attgatctcc acttatatct ttcagagtag   240
tttgtcattt gctttagtgc ttcaattata tccttttaga gcatggcggt ggttttattt   300
tgaagaaata gatgaactct cgtgcttcac ttatattatt ttgagagtct tttagaacaa   360
catggttaatt ttcttttagg cataataaaa ac                                     392

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<210> 6975

<211> 349

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E10

<400> 6975

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 gtggtggagg ctctacggtt aatatgggtt tgcgaaaagc catttttttt cctacaataa 120
 aggaatatat tttgtttaac tattatgtta cttgataaac aatgagaagg ttcctccgac 180
 tcaatcccaa ttaagcagta ttaataaacc aacaaactaa ttacagtgt tgagatcaga 240
 ataataattc aagaaccaga tactcaagat gtcgataacc ggggacacga ctaaccatga 300
 ctactttgta cactctgtaa aggtttgaac acttttcccc ataagactc 349

<210> 6976
 <211> 163
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E6

<400> 6976
 aatcttagac gcctctcact tcatggaacc atccacacac ctagttcggc ctattccctc 60
 gcttcacac ggatgctcct cagttcggcc gatgagataa tgaataagcc gatgtgcttt 120
 ggtgtaactc caacttgtgg aggatcataa cgctcaaaac tta 163

<210> 6977
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-E9

<400> 6977
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 canaagaaca agtaatagtt acaactatat gcatatttgg gtggtggagg ctctacggtt 120
 aatatgggtt tgcgaaaagc catttttttt cctacaataa aggaatatat tttgtttaac 180
 tattatgtta gttgataaac aatgagaagg ttcctccgac tcaatcccaa ttaagcagta 240
 ttaataaacc aacaaactaa tttagagtgt tgagatcaga ataataattc aagaaccaga 300
 tactcaagat gtccataacc ggggacacga ctaaccatga ttagtttgta cactctgtag 360
 aggtttgagc acttttcccc acaagactcg atctcctccg ttggatttct cacacta 417

<210> 6978
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F9

<400> 6978

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 gctgtacatg ggcacgggtg agccggacga gcttcactta gattaggttt catgttgcac 180
 gtaataatat gtatttggtg ttttgaaatt atgtttgtgg ttgtggaatc attttttata 240
 agatgtccga tcaatatcca cggacgcacc gcgggtgggg gccggatttt ggtgtttgtg 300
 gttgtacatg ctttaagtgt gcatgcaata cttgatatag tggagacata gtcagatatt 360
 tgtcaggaag tgtcagctgt atatagaaat gcattgcaca aacgaatcct ttcccacctt 420

<210> 6979
 <211> 287
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-G10

<400> 6979

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 gtcctatgtt gaactgagaa tgttttgcct gttttggttg tgatcaaaaa ctatccagat 180
 tctagtatgt gttgttccac ctacatcacc gtcacgttcg gcaaggcctt ctggattaat 240
 gataaagtga tcagctcatc accggagaaa aaatcggccg ccctaaa 287

<210> 6980
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-G11

 <400> 6980

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 ccgtgtgggg tcgagccgtg gaggaagggt agacacgaac acgacagacg tgatttaaata 120
 gttgggttttg ctcgatggcg cgatccaaca aaatgaaacg ttggttttctc tccattttcca 180
 ttttttctac ggaaaaacgg aaactatcca ctccattttc attcctattc caaggttgcc 240
 ccgttacaac attccatcaa atacaaagga aaactaacca ctacaagaaa tatgtcaact 300
 tgtgaccttg actattgggc actgaaagggt cattgttttt catttgcgac ctttttggtta 360
 ccaaaaatag aagggtcaaaa g 381

<210> 6981
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G12
 <400> 6981

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 ctcgatggcg cgatccaaca aaatgaaacg ttggttttctc tccattttcca ttttttctac 180
 ggaaaaacgg aaactatcca ctccattttc attcctattc caaggttgcc ccgttacaac 240
 attccatcaa atacaaagga aaactaacca ctacaagaaa tatgtcaact tgtgaccttg 300
 actattgggc actgaaagggt cattgttttt catttgcgac ctttttggtta ccaaaaatag 360
 aatgtcaaaa g 371

<210> 6982
 <211> 273
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G9
 <400> 6982

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 acgagcgctt cgtggtccag ttcccggacg ccaagccgct tgacaaaggc gcgcccctgc 120
 tgtgcaccgg caacaccggt gtacaacccc atcaagtacc acgggcgtaa cgccccggga 180

atgcactcgg cgtgctgagc ctaggctggc tcagtcacat caccgtcaag ttcggcaagg 240
ccttcgggat taatgtgaca gtgatcagct cat 273

<210> 6983
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H10

<400> 6983

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tgaggagaac ggagccatat ctatcagctc atcgcccgat ttagaccatc aatccgttcg 120
gggtcgacac ctatctcaac agcaaacga cgctgtatat gggaatgacc ttcactcgct 180
cccaagatta cgcgctgcgc ctaagccggc ccatgaacat cagctttagt gcggaatccc 240
cgcatataaa actacacatc tgattcgata tgatcatcct gtgtccatag attcacccat 300
gatcgttgat gcaaaa 316

<210> 6984
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H12

<400> 6984

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gtctaccttc tgtttagatg tgtttttatg ttttaattag tgtttgtgcc aagtagaacc 180
tataggataa cctatggtga tagttaattt gattctgcgg aaaaacagaa actttgcgcg 240
cacgaaaata attttgtaa ttcacacaaa cgagcttttt cgttgattct tttttctgta 300
gatcaataga caaattgctc aggatttcct attttggtag gatttttaaaa gttccagaag 360
tattcgaggg ttacagattg ctac 384

<210> 6985
<211> 397
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H9

<400> 6985

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gctatatttt taatcgccac aatataagtg ctttgcttgg agcgtcatgt atgatattag   180
tatttgcttt ttagttttcc acaatcatcc ttgctgtaca caccttttgg gagaagccta   240
cttgattaaa tttattagaa tactctatgt gcttcactta tatcttttga gctagatagt   300
ttttgctcta gtgcttcaact tatatctttt agagcacggc gatggcttaa tttgtagaaa   360
ttgctagtct ctcatgcttc acttatatta ttttgag                               397
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<210> 6986

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A10

<400> 6986

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tccaagatg ctgttcgtca gatccaagat tggggagggc gccacggca aggtctacaa   120
gggcaagtat ggtgatcaga ttgtagccat aagagttctc aacagtggcg gtacccccga   180
acaaaaagta acacttgaag atcgtttcat ccgagaagta aatatgatgt gtaaagtga   240
acatgataat cttgtcaagt tcattggagc ctgcaaggaa ccattgatgg tgattgtgag   300
tgagctgcta ccagggatgt ctctgaaaaa ttacttgaac agcatccggc ccagccaact   360
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<210> 6987

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A12

<400> 6987

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 gtgcccccca aggggagtct gaattggact aggggagggg ggcgcggccc ctcttttctt 180
 ctccctcttc ctctctttct ttcccccttc ccccttccta gtaggactag gaaaggctga 240
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 cctccccctt tgctccttta tatacagggg cagggggcac cctagataac acaaattgat 360
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<210> 6988
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-014-Q1-E1-A2
 <400> 6988

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 accaattatc aacaaaggaa tgggtgggggt taaactgcag caaccaacct ttaacccggt 180
 ggctaaccaa aactacgact gcaagcaact cttttgagggt ggcgcacacg agtccacata 240
 ttcaccatat caatacacca ctatggatcc gctcccgctt ccctacgaga acgccatcca 300
 tagcactcac gcttatcttg tgcaatttaa aagtatccac tttcacttgt ctatgaactg 360
 tacaagcaac ccagaagtcc ttttccgagg acacggctat tcgaatagat gatgttaacc 420
 ctgcangggg gta 433

<210> 6989
 <211> 218
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-A3
 <400> 6989

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 tgcgtattaa atcaagtacg tactacggta tttttaactg aagttaaaag gttgggttctt 120

gttttaaggg tgcagatgta ctataacacg taagtcttac tatccaaatg cctcaccata 180
ctcttttgag gtggcgacaca cgaatcaacg gccgcacc 218

<210> 6990
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A4

<400> 6990

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ctcccaatcc ggtcccaatg attgcctcca aaaacctcca aaaaaccccc ggcccccccc 120
aatggcgccc cccttcttct caacccccctt caagccctac gtctaccaga gccaacaggg 180
atctgtgacg gcgtttcaga tatccggtgg ggatgtgcag gtctgcacg tgatggtgaa 240
gtcgcaggac aagttgactg cgaaaccag tacaatgtgt tacatgtccg ggaacattca 300
gatggacaac aattacttgc ctgaaaacga tggaaggcgt gtggcagtgg atattttgga 360
aaaagcataa ccagcactgt tttcttcaat cctggccctg atgatggata tgtggggatt 420
tctgcgccat tt 432

<210> 6991
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A6

<400> 6991

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gggggctgtt catcgcgacc aagtgatctg gccgctgagc agcgacgcca tggacgcat 120
gattcgggag cagagcagct tctgttaaga aataaataaa gaggatcggg gctcgacaat 180
gttgtggcgg tgtgttgggt gtgattgttt gtttgttgca gtggctgcat tcaactggctg 240
ggcaccagga tctataagat aatgtgtacg tacgtacgta ctgtattcct gaacttgtac 300
tgtgacgagc gagactcgct ttgtaacgtg ctattctgtt gaaaaaaatc atgcgaacta 360
aaaaaaaaaa agcggcgg 378

<210> 6992
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-A7
 <400> 6992

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 acaacctcca cgtgcacggc atcgtacaca cgtcgggcgg caacgtgtcg atgacggcaa 120
 cccactccac gatccgtacc cgcgccgacg gcgacggcgt ctccatcttc aacgccacca 180
 aagtgtgggt ggaccacctg tccatggata attgcgagga cggcatgata gacgtgggtg 240
 ccatgtccac ggccgtcacc gtctccaaca cccacctggc ccaccacaac gacgtgatgt 300
 tcttcggcgc caccgatggg aaggaggagg acaaggatgat gcatgtcacc gtcgccttca 360
 acca 364

<210> 6993
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-A8
 <400> 6993

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 gaggacgtcg gcgtgagggt gaggtcggcg cgatgccgct ggtggccggt tgcgggtgtga 120
 tgccgcaaga tgatgatggt gtggtggtcg gcgtcgcgag gatgtcatcc atgacaagat 180
 ggtccatggt gaccggcgct gcgccggtgt cggctgtggc acaacggact ccatgcgaga 240
 tggagcccga ctgtgcaaga agaaagatgg tggccatgca gtgccactat gtgaagatgg 300
 cgggtgtgaag ctgccacaag aagagtcggt gcgatgccga cgatggtggt gtgatgccat 360
 cgtcatcatg gaaagttggt gtgaagccaa caaagctgc ggtgcgatgc cac 413

<210> 6994
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B1

<400> 6994

ggtcgaccgg gaaggtgaaa ccatagagag atgtgtatatt ttaattgaga tgttttcagg 60
agtacctttg tgaagctgat atatctttct tttacaagat atgttgact tgcttcatct 120
acataggctg tctggaatgc catgaggccg ggattgggtg atgaaatctt caaagctatt 180
atattgggtct caagaaactt gcaatacatc aatattttta atttttttgc tgacaccaca 240
gctaccacct cttcactaaa tgacagatgt tgccagcaac tgcacatgga aggatttaat 300
gttatattat gtctactaat caataacgag ggagatcaaa ttactgctct caaatattca 360
cctgattgat tttgaaaaga ggggttaaaaa tgggtgttatg aatga 405

<210> 6995

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B10

<400> 6995

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gtaagggagg gcatggcatc ccaaagggtt ccatgggtccc acttgtcttc ctcatattct 120
atgaagtctc aggaggtccc ttggtggattg aggatagtgt caaggctgct ggaccactcc 180
tggcaattgt ggggtttctt ctgtttgcgc tcatatggag tattccagaa gtcctaataca 240
ctgctgagat ggttactatg tttcctgaga atggtggcta tgcgtctctg gtctcttcag 300
ctcttggggc cttttggggg tttcagcaag gctgggcaaa gtggctcagc ggtgtcatag 360
ataatgctct ctatccagtc ctttttcttg actatgtcaa gtccagtgtc ccagctctcg 420
ggggtgggct 430

<210> 6996

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B11

<400> 6996

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 gattccttcg ccaaggctat tgctccatta ttgtcacaaa agattttgat tggacccgat 180
 gcactaggta ttacgcctag atcggatatg aactccttca tttgcttctt ccgaagcagc 240
 tatgtactcc gcttcacacg tagatcccg cagcagcgtc tgcttggaaac tgcaccaact 300
 gacagctcca ccattcaata taaatatgta tccggtttgt gacttacagt catccgaatc 360
 ggtgtcaaag cttgcatcga cgtaaccatt tacgacaaga 400

<210> 6997
 <211> 334
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-B2
 <400> 6997

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 gggattggtg tatgaaatct tcacagctat tatattggtc tcaataaaact tgcaatacat 180
 caatattttt aatttttttg ctgataccag agctaccacc tcttcactaa atgacatagg 240
 ttgccagcaa ctgcacatgg aatgatttaa tgttatatta tgtctactat tcaataacga 300
 gggagattat attactgctc tcaaatatc acct 334

<210> 6998
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-B3
 <400> 6998

catgagatat atacatgcta gaaactttcg tgtgcagcca caagctatta tgggctccta 60
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 aggttggtac agtctaccg ttcgtaagg tctagcgctt ctgaaagact atgtctcgat 180
 catccgtttc tcaaacacca tgcagtgcga gaaaaccaac ggaggaggctc gagtcttgtg 240

gggaaaagtg cgcaaacctc tgcagagtgc atacactaat catggttagc cgagtcctcg 300
 gttatggaca tattgagtat ctagtacctg gattatcatg tgaatctcaa catgttactc 360
 taaaattaat tttgttggg 379

<210> 6999
 <211> 346
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-B4
 <400> 6999

catgataaaa tacatgctag atactttcgt gtgcagccac aagctattat gggctctagc 60
 ataatttact aagtcgtgcg aactcttaca gtggtatact agcagatgta ggggaggtac 120
 gttggtacag tcctatcggt cgtacggtgc tagcgcttct gaaagactat gtctcgatca 180
 tccgtttctc atccaccatg cagtgcgaga aaaccaacgg atgatgtcga gtcttgtggg 240
 gaaaagtgcg caaacctctg cacagtgcac acactaatca tggttagcgg agtcctcggg 300
 tatcgacata ttgagtatct actacctgga ttatcatgta agtctc 346

<210> 7000
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-B5
 <400> 7000

actggatata ttaacgggcg agccgttacg gtgccccggt ggccatcaac ggcactatc 60
 acggattgct acctccttca gtgtcatgca gtggtaaaat accatatgct ggggatgtac 120
 gttggcagag tctacacgtg cttaaggtgc taccgcctct gagcagacta tgtcacgatg 180
 atccgtttct caaacaccat gcagtgcgag aacatcaact gacgaggtcg agtcttgtca 240
 ggaatagtgc tcatacctct gcagcgtgta tacactaatc atggttaccg cagtcctcgg 300
 ttatggacat attgagtatc taatacctgg attatcaagt taatcacaac atgttactct 360
 aagaataatt ttggtggggt ctgtttaat 389

<210> 7001
 <211> 363
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-B7

 <400> 7001

gataatgcac cactcaggtg gagccatcac caccccaaga ctcacacgct tccaaagatc 60
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 ggtgaacctc caaatgatgc ccacagtcac tttctcacc acgagaatct tagatataag 180
 atgcaagctc aagatcagta tgaagctcaa gatggcgccc attattttca gattaaccct 240
 cgtccgtcca cataccaaga cgacttgtcg cgtctaacca caaagattgc tttcaaactc 300
 aaaacgaagg tcgattcagt ctaaatcgaa gtggtagcct aagactcggg gtaagtactc 360
 gta 363

<210> 7002
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-B9

 <400> 7002

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 agaacaaagt gaaggctctc aacctcgtga acaagaccag gggcaagatc aatctcaaga 120
 tgggtggtgaa cctccaaatg atgccaagg tcaagttctc cccctcgagc aagttcaaga 180
 ccatgagcaa gctcaagatc aagaacaagc tcaagacggc gctcaagata atcaagttaa 240
 ccctcctcct tccacatccg aagaggaatt agagcgtcgt gccgcaaga ttgcttccaa 300
 gctcaccacc aaaggccatc tcatggagaa tgtggttgga agcctaagaa agggggtaat 360
 cactcgtaga caattaacaa actattgtga acatcacgcc tttgtcccc 409

<210> 7003
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-C1

<400> 7003

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agaaggcaag cctagtgtcc tcctctcaac cttcaatgct gaccctagca gcaaccatga 120
ttgatccttt gtacgctaaa ctgaagaaac ctcttcacga gtttcatcat gcatgggagt 180
cgaagatatt agatgaacat cacatcctgt atgcagcaac ggatgcctac ctttgtttaa 240
atatctacaa gggttggatg aagaagcgga gcccggtgtc tagttcaagc aaagaagtgt 300
cggcgaagag gaagaggaag agggattagg tcgaagtcca ggacgtggac tcggactccg 360
aataggtggg aattccgtcg ctcatgct 388

<210> 7004

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C12

<400> 7004

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gtgtgcacga tcatgtgctg ggctgtgctg gtgaggaggg cgtccaagac cactctctga 120
tccttccttc tttcccttgt ttttgtttgt cagcttcatt ggattggatc atatatacaa 180
gccgcgttat ttgtttgctt ttgtcctgta gtttgccttt tgtttagatg tgttgagtaa 240
caagtgcaat gcaagtttgc actcgtgtgt aaaatgcttg atttgggttc atgaatagaa 300
aatttcaacc tgtcaataca gttcactcaa catatatgaa atc 343

<210> 7005

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C2

<400> 7005

cgggtcgacg cctacctgca ttacatcctc ggcgacgagt acgagccgga gcacgtccgg 60
gagcaagaac ttcacgggcc cggttcaagca ccaatggcca tccgcaacca tatccgcac 120
acagtccttt ggagcacaat tgacatattt gcagcggacg tgtgatgagc agttttccat 180

ccaccgtgca aaagacccag agctgctcgg cggcatgata gatgaccac ctgaagagcc 240
gccatcacag tgctcatcga gagcctgatg ccccgcaatg aatgggcaga ggacctccgc 300
gattcagtca agacaaaggc agcctgcggc ttcattcattg cccgcaacgg ccatttcaac 360
ctcgattccg atgatgtggt ggccaagatt gagcgcatcc tt 402

<210> 7006
<211> 406
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-C4
<400> 7006

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gagagaagag aagagaagcc cggcggtagt ttcggagacc gaaacgtccg acaattaaac 120
cggcaacagt gccgctatgt taaacggttg ggctatcaaa cgaactccga atgcgacgaa 180
acttggcagg cggctctgtct acactataat aagaccacac gacaagttgc aacctattcc 240
gagaacattt ttatgccact aataaaataa tattacggag gtgccgcggg cgcgtgcgag 300
tgtagtcggg ctgagaacgg acaacggaga gaaccggcgg aacacgaacg gatgcaagtt 360
ttgaaaaaca tgcagatgan atacagatga agtgcagatg atgaca 406

<210> 7007
<211> 396
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-D1
<400> 7007

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cctgaagacg ctgctgttcc agcaccggga caagaagctg ccttacaaga aggtgggtcca 120
gctggcgctg gacatggcga gagggctgag ctacctgcac tcgcagaaga tcgtgcaccg 180
ggacgtaaaag gcggaagaaca tgctgctgga caggaagaag tcggtgaaga tcgcggactt 240
tggggtggcc cgtgtggagg cgcaggacga cgacaacatg acggggcaga cgggcacgct 300

ggggtacatg gcccccgagg tgctggangg gcngccgtac gaacacaagt gcgacgtgta 360
cagcttcggc gtcctgctgt gggagacgta ctgctg 396

<210> 7008
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D11

<400> 7008

acgatgctaa ctataacgac acgtccgtca tctccctcca ccccgacacc atattagagg 60
ctccagctct tcttcggcga gaccttcctt ctcaacggta acacgacgaa tgactccatc 120
tgcattgttc ttgtgatta catctgtgat gagcctaaag tcataattat gagatctgtc 180
aagagttaac tttagattga aagatgtgtc atgtgggtgtc tgttcatcac tacgcctagt 240
ttcaatacat tacacgagtg tatataactta cttttaacaa tac 283

<210> 7009
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D2

<400> 7009

acttcaatcg cagccccttc tccagctctg ttcttatgcg gcaataactt cgctggacga 60
ggataattcc ttcacatca ccgactttct gttaatggtt ttgttcggac tcgttaacta 120
cggcattaca gtgcataccg gctcccggtg atacatg 157

<210> 7010
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D9

<400> 7010

gacgggagaa gtaagacttc agacgccgcc gcaaggcttg cacaccacaa gatccaagat 60
gtcaatatga ctgtactcca gtttcaacac gtcacatcac attgtcattg ccagggcttt 120

ccaaaaagcc acattagttt gataggccaa atgcagacaa aatacathtt gatatacatg 180
 tgcacaggct catgtacatc caggagttag tagagtgtt cggacaactt acagcctgct 240
 cactcaccta gattaccctc aaggcgatca tgacgctggt cgatgcactt gagctgttgc 300
 aggccaccaa aagggaacc gatggcgatca acggagtcgg caatctattg gataaagtcc 360
 taaatgcgat ttaatgcgac gtca 384

<210> 7011
 <211> 360
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-E3
 <400> 7011

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 ggttgatgta atctctcagc aatctgctga aaagcattca agtacgcaac attttatata 180
 gagattgcta tttgactggt ccgcttagtc acagtgtgct ctgtaaatac attagctcat 240
 cagacactgt ttaccgtcta cacatagcga acatcagatt ctaatctcaa gtaatgagtg 300
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<210> 7012
 <211> 322
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-E6
 <400> 7012

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 cgagaatacc aatcaaaaaga tggtacggtt agttcatccc atccgaatca atctgagcct 180
 tgcataaact tttctgtaat agccttggtg atcttgcggt tgcactctacg tgttcaattg 240
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 actgcaccaa catcatctca cc 322

<210> 7013
 <211> 327
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F10

<400> 7013

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 cctagcggtt cacatctgga tgacatgtgg aaagcatgca acttactgaa aattgagcca 180
 atttcccccc ggccccctgt ttggttggaa ggtctttccg gcttcacggt ttttcaggaa 240
 aaagggataa taccattaaa attggtttta atgggtgtacc cctaaatctt cacctaacag 300
 ggacccatta aaaactttca actggtt 327

<210> 7014
 <211> 312
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F3

<400> 7014

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 acaccggtca cgcgtgcgca agctgcagta catctcggag cttgagcgcg cgtctcgtcg 180
 ctcaacatgg aggtgtccgc attgtaccg cgtgtggcat tcctcgacca cgagcgctca 240
 ctgctgaagc cggggaacac ccacctcaga tagagcattg cggcgctcac gcgggacatg 300
 atcttcaaag at 312

<210> 7015
 <211> 347
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F4

<400> 7015

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 tccgttgagc tgatgtttgt ttcagctaga gaaatcgta cgcccgctca taatttttcg 120
 acgctatgga aaataataac tactggtata tcaactctata tcaaaccggc ttgtgaaata 180
 aatggttgcg ccccggtttt ttgtcgtaaa aaaaaaaaaac aaataaaatg gaaatatact 240
 tttgcatca agtagatcaa aacttaagta gccgttggtg caatctcata gatcctgaat 300
 cgatgtcgcc acaatatgtt atacaggacg cagtttgaaa ccttcat 347

<210> 7016
 <211> 297
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-F5
 <400> 7016

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 attgataagg gcgggagttt acctggcacc gcacagttgc cgtgtcaggc ggcgctccat 180
 gggcgcgctt caaccgctag tattacacca catgtgggtg catgttctct ttcacacaca 240
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<210> 7017
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-F7
 <400> 7017

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 cacttggtgt ctgggcacga cgaactttgg caacggtgca tactcgggga gaacaatttt 120
 atcttgaaat ttagtgagag atcatcttat aatgctaccg tcaatcaaaa gcaaaataag 180
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 caccatatga tccatccatc ctccgtgcat gttgcctgcy ccattgatgc gttgagctac 360

gacgaactac ccttctctac gtacccttct gtatgtgtat gtgtgtaaca gtatggttgt 420

g 421

<210> 7018

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F8

<400> 7018

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gtctcggaga atctggggat cctgaaatga aattggagat gaggcgctac cgggagcctc 120

ggttctacac caaggtgtat acaggttgcc aatcgtaagg tcatgatggg aactcctttg 180

agctttctct ggtatcttcc agatgcattg gagcttatgt gaattgcatg acgagccatt 240

gccacatatg ttggctgtgg gacaaggta tatgcacagt agatacaggc tttcatgaga 300

ttctgaaca ttgtgcatta cagatccact 330

<210> 7019

<211> 232

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F9

<400> 7019

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gcacaatcca atgccttgct ccgccacccg tctccctctc ttgttactct ccgggccacc 120

tatgtgcacc cagatcttcc tttctttct agcttcccg ggtcttttgt gtctcccccg 180

gtggcggttt ggccgtcgca cctcgacgac attagccact gtgggatgaa tc 232

<210> 7020

<211> 332

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-014-Q1-E1-H10

<400> 7020

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 caacgggtgga ctccatgggt gtgtgggaga ttcgaagtct ggatctcgag gtgggtgatgg 120
 cctttctgag gtangccgag gtatgggaca tcccatccat cgatatatca ggttcaatgc 180
 ggctcaatag gtgacacatg cgtctctttc ggagtcgtca ggcacttcct gtcgcccaga 240
 ggtgaagcct caggcggatg ctacgcacga cgtctcatgc ggaggcatca agtcatgcct 300
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<210> 7021

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H11

<400> 7021

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 attttgattt ctacagaaat tttcttgtaa attagactga gataaaatca tttgtttgca 180
 ttctgctgag aatatagttt tctcttttcc ccatttttta tttttaaggc agactctcgg 240
 ccgacgacgt ctctagtct gcacgatga ttttttggt agtacttcta caaatcctat 300
 gtttcaaaaa gtttgctttg ccaagaggaa gtcacggata cgacattgag ctatgctcat 360
 gacgtgttgc cgctggatgt aagacgaaca atacttcgac accgcca 408

<210> 7022

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H12

<400> 7022

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 tgcagctggc ggcgggtgctg aacggcgacc accagctaag cagcctgcag gagaggatca 120
 gggagaggat gaacgtgagg gaaggcacct cctacatgag gagcgccgtg cggcgcttct 180

tcgaggccgg catgtcggcc aagaggatgg gcctcgccga cgacgaccag atcgtcaaga 240
tgaggccctc ccttaccacc agaatgacct cctccctgc agatcaagat gatagtccgt 300
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agtactacac atacatacat aga 383

<210> 7023
<211> 326
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-H2
<400> 7023

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ggccccact tggggtttgt caatccctac agcaagatga tgattcctgc tctcacataa 180
agtcctatcg cgatccctcc ctttgctctg gttgctgcga atatcagcct ggccggggagc 240
atcatccgca gcatgagggt cactcatgac attctccact tctgttccgg ccatgtttgtg 300
acagcggaca tccacgttat tgacgt 326

<210> 7024
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-H4
<400> 7024

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tggtttttcgg tagggaacgt cccacctttg aggacgaaac gatatccatt acctcttatt 120
getctcaaat tttttctcgt gtcaacattg aacaacatga gtgttgtgtg attttttatg 180
atttttcggg gtttgtttgg acatttttat gcattaagtg agttttcaat gcatttatgt 240
gcataattca aatttgaact acatgcgcac gctccagtgc atataaattc attgaaaaat 300
caaatctttg tccttgggtg catgcttaag tcccatgcaa gaaatgggaa tgaatttcaa 360
acaccatggc accgttgatt gccggcaaaa cagtgaatg cctggttttt 410

<210> 7025
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-H8

 <400> 7025

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 tggaagacta cagtgttggg gaaaagataa ggggtgctgcc ttgtcgtcac aagttccatg 180
 ctgcttgctg ggacctgtgg ctacatcat ggaggacatt ctgccctgta tgcaagcgag 240
 atgcaaagtc tggaatgtca aatttcacctc catcagagtc taccoccttg cttctctctg 300
 ctattccctt gccagctgaa tcgacagctt tgtcttcttt tcgttcaatg gtagcagcat 360
 ctctccaag gacaataagc cggcatcctt ca 392

<210> 7026
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-A2

 <400> 7026

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 ctcgattggg ttctttaata agatatatca ccgaatgtc gatgaactgt ctggctccgt 180
 ctgtttggat gtcattaacc agacatggag cccaatgttt gatcttgtca atgtgttcga 240
 agtcttcctt ccacaacttc tattatatcc aaatccttct gatccattga acggagaagc 300
 tgctgcactc ttgatgcgtg atcgccctgc ttatgagcaa aaagtgaaag aattctgcga 360
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 gctgagcg 428

<210> 7027
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 <212> DNA

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<400> 7029

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 ctcccaaagg tttgaaagta aacaggtaat aggtactacc tcaactactt cccatccac 120
 aaattaatta gaatcctaata catgcaatgt gtgaggattt gatctaatagc aataaaactg 180
 ggtagtagaa aaggatatgat caaagtgtta cctgccttgc tgatgatccg ggaaacctag 240
 cgattcgaag taacaagcgg cgcacttcgg gtattctatc gcagacaaac aaacaagcat 300
 acaataagta ctcatctaata gcacgggtta aactcaaata agaggatcta aacagaaggt 360
 tcaacttaag aactccggtt ggcaaaaaga atcagaacga atggaacaac gagagtcaaa 420
 cggcg 425

<210> 7030
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-A6
 <400> 7030

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 gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 120
 gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 180
 gaagaagaag aagaggaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 240
 gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 300
 gaagaagaag aagaagaaga agatgaagaa gaagaagaag aagaagagga agaagaagat 360
 gaagaagaag aagatgatga t 381

<210> 7031
 <211> 147
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-A9
 <400> 7031

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aattaagtat tcacttgata tcatcgatga acaaaanatt aaactctaata ggttgcccca 120
aagtttaagc atctgaaaga ggatagt 147

<210> 7032
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-B1

<400> 7032

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atgatctctt gaagaggtgg gctagcagat gtaggggaaa gtaggtgtac cgggccatcc 120
agagtaaaga gtgattgttc ctgaaagact gtgtctcggt catccgtttc tcaaacaatca 180
tgcagtgcga gaatcaagcg gaggcgatcg agtcttgtgg ggagaaatgc gcaaacctct 240
acagagtgtg caaactaatc atggttagcc gtgtccccgg ttatggacaa cttgagtatc 300
tagtacctgg attatcattt gaatctcatc accatgttac ttt 343

<210> 7033
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-B10

<400> 7033

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ggctgaagcc cgggtgggcat attttcatca gggagtcctg cttccaccag tctggggatt 120
ccaagaggaa agtgaaccgg acgcactacc gggagccaag gttttacacc aagggtgttta 180
aggaatgcc ctcctatgac caagatggga attcctttga gctttctctg gtaacttcca 240
agtgcattgg agcttatgtg aagagcaaga agaaccagaa ccagatatgt tggttatggg 300
agaaggtcaa gtgcacagaa gacaaaggct ttcagagatt cctggacaat gtgcagtaca 360
aatccacggg aatcctgcgt taagaccgct tgtttgggga gggttatgtc agcaccgggtg 420
gattcgagac cacanaagaa tttgt 445

<210> 7034
 <211> 182
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-B2

 <400> 7034

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 tactatgctg cgctgtgttt ggaatttgaa ataaaacgat gggagatgtg ccacgctcat 180
 aa 182

<210> 7035
 <211> 214
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-B3

 <400> 7035

 gggccgacgg ggttcacaag tggcgggtccg taaaagacaa cgtttcaatt tgcgtacaag 60
 gcgttcaaag ttccctggcc tcatgttatg aagcgcacaa gtcagaaat tccactgaat 120
 gatttccagt ttacaatgaa ctggtaacga gttgcttggt gttacagata ggctactgga 180
 cagacgacaa cattttgtgg aacttcatcg tgac 214

<210> 7036
 <211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-B4

 <400> 7036

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 gaaatctcgg aaggagagga gtatgacaac cccaaggcca gtgacgcaa gaagaaacaa 120
 ataggcgagg gtgaggagaa tggcgaggat gatgaggaag aacaagagga gcaggaggggt 180
 ggaggaggtg acgacgatga tgatgacgac gacaacgacg atgacaatga ggacgacgac 240

gatgatgacg atgatgtcgc tgctgaagac gatggagatg gagtagaaga ggaggatgat 300
gacgatgagg aggaggagga cgatgaagac ttgctccagc cccgaagaa gaggaagaag 360
tgaagccctt cgacgcggct gctttagtca acatgccacg agatgtgcct gtccttcac 419

<210> 7037
<211> 293
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-B8
<400> 7037

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actaaggtgg ctatcaagcg tggcaacccc ttgtctgagc agggcataca tgagttccag 120
actgaaattg aaatgctgtc aaagctccgc caccgccatc ttgtgtcgct gattgggttac 180
tgcgaggaca agaatgagat gatcctgggc tatgaccaca tggcccatgg aactctgcgt 240
gagcacctat acaagaccca gaatgcgccg cttagctgga ggcagcgttt gga 293

<210> 7038
<211> 321
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-C10
<400> 7038

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ttgcatgcaa cagggatgaa gaactggctg ccaattatct tttggatcat ggccatgagt 120
ttgaggaaca acaatagatg ttagattggt cttgctgttg aaagacagaa gagtcagtga 180
cagaagcatt tcagtttggg gtcgtttctta tatcttgctg ctgaatatca ctgctacttg 240
ccattagtgc cttgttgctg actttcaatt tcttgatatc tggaaatgct ttctaagtac 300
ataatatcat atgcaaacct t 321

<210> 7039
<211> 117
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C2

<400> 7039

cgggtccagaa atccgggtcg acggggggcgg ttgtgcgac gcacgctccg agagcgacga 60

ggagagcggc gaggaggtgg acgagggcatg cgccgatgcg gccatcctgc tgaccaa 117

<210> 7040

<211> 379

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-015-Q1-E1-C9

<400> 7040

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acggccacgg cgacggcaag aaggacggcg agcacaagga gaagaaggac aagaagaaga 120

agaaggacaa gaagcacggc gagggccaca aggacgacga cggccacggc agcagcagca 180

gcgacagcga cagcgactga gccagctccg gccgctgca gtgcanggga gatgaacgcg 240

tgggttaatt tggagcgtgt ggtagcatat gtatgtaatg cttgacatgt ctcattggatc 300

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ccattggtaa tttgtacc 379

<210> 7041

<211> 258

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D12

<400> 7041

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aaacccccca ccggtttatt tcactttgtg agactgggag gggctggaag ctttttattt 120

ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaggggcc cccaaaaa 258

<210> 7042
 <211> 371
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-D2

 <400> 7042

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 taataagggtg gtgtattgcc gccatgtccg ttgagctgat gtttgtttca gctagagaaa 120
 tcgttacgcc cgctcataat ttttcgacgc tatggaaaat aataactact ggtatatcac 180
 tctatatcaa accggcttgt gaaataaatg gttgcgcccc ggttttttgt cgtcaaaaaa 240
 aaatgaaatg taagcaaaat caataataaa aaaataggaa aaatgtttta aaaaatatat 300
 gttgcaaggt ttagaaactt gtggtagcat ctgtacgtaa tgctttacat ttcccatggg 360
 ttttgtgaag t 371

<210> 7043
 <211> 342
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-D4

 <400> 7043

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 aggacaagaa gcacggcgag ggccacaagg acgacgacga ccaccacaac accatcagcg 120
 catcccatta gcattctacc attttcctcg gagagaagta gccagaaaca gcagcgccat 180
 ggccggcatc atgcacaaga tcgaggagaa gctccacatg ggtggcggca gcgacgagca 240
 caagaaggac gaggagcaca ataaggcgga ggagcacaag aagaaggacg gggagcacia 300
 gaaggacggc gagcacaacg agggcatgat ggtgaagatc aa 342

<210> 7044
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-E3

 <400> 7044

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 gacgtcgtag cagaagcgcg ccgccagctc gaaggccttg gcgccgcccg ggatgtcgtc 120
 cagctgcagc gtgcacatgc cgccgccgtc cgacggcggc cggtactcgc tgatcagacg 180
 ctgcagcacg ccgctccggc tcaacagcgg gaactgcatg ctcataatga cgatcgatgc 240
 accgttagtt agtcacatta acgcgcgcaa tcgatcggtt tgtgcagttc agttgggtgaa 300
 tgcgaaatgt gacggcgaca cactcgatcg tgctaacctt gtggagataa aaggacatgt 360
 ctctacttc cagcagcaca tcgctctcga gtcgggtcat gcatct 406

<210> 7045
 <211> 333
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-E9
 <400> 7045

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 taaaaccgag ctttggcacc tctacaaatc cctgcttcnc tctgcgaagg gectatctat 120
 ttactttcat gttgagtcac caccctctta ttaaaagcac tagctggaga gcgctgctgt 180
 catttgcatc cattactatt aatttatatt gggatatgact atgactggat ctcttttacc 240
 atgaattaca atgtctagtc agtccttgat ctttaaagggt gctctgcatt tatgttttgc 300
 ggtctcagaa agggctancg agataccact ttg 333

<210> 7046
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-F1
 <400> 7046

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 ctgaagttcc attgactgat ttccatttaa gatacactgg aaacgatttg cttgggtgta 180

cggctaaagt agtggacatg cctcagcatt ttgtggaact tcatcctgat atagagaaga 240
 ttttctggga tccacagaat tggcctaaat atgtacttgt aagttataca tgggaggaac 300
 aatcagagat agatgttact gcaggattct atgtgttatt tggatctggc cttgttcttt 360
 ccttcacctc tgcaatctat gtattgcaat catcgcagga taaattaaca aggtttgtac 420
 gagaagcggg ttctg 435

<210> 7047
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-F11
 <400> 7047

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 tgacgatgta ttagaaaata ttattctatt atttgaaaat ctttttgaag catttgaaag 120
 aatttaaagt gtgtatagaa aaaatgttga ccatgtattc aagaaatgct gaccatgtat 180
 gtgaattgtt ttaatcatgt atttgaaaaa tgtatatcaa gaatatgaaa tatgtttaag 240
 tatgtataga gaaactgttg accatttatg aaaaaaaaaa tgttaaactc gtattggaaa 300
 aaggaaaaag aaaccaaaga aaaaaaaaaa ggaattgaga aaagaaaaaa tgggttaaaa 360
 cccatgaaag gaacaaaaag aaaccaaag gaggacgaaa gaagagacaa aaagatgtat 420
 aatgaaaaaa ataaaacca 439

<210> 7048
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-F6
 <400> 7048

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 caactaaggt ggctatcacg cgtggcaacc ccttgtctga gcaaggcata catgagttcc 120
 agactgaaat tgaaatgctg tcaaagctcc gccaccgcca tcttgtgtcg ctgattggtt 180
 actgcgagga caagaatgag atgatcctgg tctatgacca catggcccat ggaactctgc 240

gtgagcacct atactagacc cagaatgcac cgcttaactg gacgcaacgt ttggagatct 300
gcactctgtgc agcccgtggg ctgcactacc ttcacaccgg tgcaaaagca caccattatc 360
caccgtgatg ttaaaacaac agtcctcctc c 391

<210> 7049
<211> 418
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-F8
<400> 7049

gggccgacgg ggaagacacg gcattggaag cccgcgcgga gaggagtacg agggttcact 60
ggttcggctg cgggtgtgagg ctgccgtcgc cgcagggcct ggccagcggg gggaatagta 120
ggggcggtga ggccctccgc gcagcacagc cggccatggg aggcaggagc atgcgacacg 180
accggcgctg ctttgggtgg ctggagcaag aagaccagag gttgaagaag cactacggcc 240
gttgatgga catcgtagcgc tctctggagc tagaatcatt catattgact aagttgataa 300
agcccttcat ccccatcaac ttagtaggcc cactagtcag cctccacca aggtgggtcc 360
cagctagccg ggggagtatt ctttttttg tgcgtaataa ggaggcactt ccgatggg 418

<210> 7050
<211> 286
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-G1
<400> 7050

cggctctgga atccgggtcg acggggaaga taggattagg aaggttcagg agctgaaggc 60
gaaagcaaag gcggctttgg agaacggcgg gtcgctcgtgc atgaatctgg acaagctggg 120
ccaatccgtc gtctgaaaat tagcgcggca tgcggccct gaataaattc tgctgctttc 180
gtcattgat gacgagattg ggggtgtttc ttgcttgctt ggaagatcgg gattgagtga 240
aaagcatatc ctatgttgta agttgcaact gtatctcatg ccaaaa 286

<210> 7051
<211> 307
<212> DNA

gggccgaccg gatgctgatt gaagagttac taaatctttc gagaggcctg taccgatcag 60
acctcacaca gtctgatctc tgtgcatcag tgtcatccct gaatcagtca cgctgagatg 120
cacagtacgt gaatgattta taacacagta gcaatcgtcc acgtattaca t 171

<210> 7054
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-G8

<400> 7054

cgggctcgacg ggggagctaa ctgggacgag cgacagtctt ttcctacgag tctatcccc 60
tacgagcatg cgcgtagtgc tttgggtttt gatgacttct aaatttttcc aacaagtata 120
tgagttcggt tgacgaatgt tgagtccatg gattatacgc accctttcac cctccagta 180
ttgctagcct cgcgtgtagc gtgcaacttt cgccggtgcc atgcagccac ca 232

<210> 7055
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H1

<400> 7055

cggtctagta atccgggtcg acgggctttg gagatgccc a tcaatagata tcaatgtgag 60
tgagttagga ttgccatgca acggatgcac tagagctata agtctatgaa agctcaaaaa 120
gaaactaagt ggggtgtgcat ccaactcgct tgctcacgaa gaccaaggga aatttgagga 180
agcccatcat tgggatatac aagccaagtt ctataatgaa aaagtccac tagtatatgg 240
aagtgacaac ataggagact ctctatcatg aagatcatgg tgctactttg aagcacaagt 300
gtggtaaaag gatagtaaca ttgccccttc tctcttttct cttatttctt tagtttgggc 360
cttctctcgc tttttttggc ctcttttttc gtcgggagtc tcattctcgac ttgtggggga 420
atcatggtct ccatcatctt t 441

<210> 7056
<211> 450
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H11

<400> 7056

cggtcaagaa tatccgggtc gacgggggtca cattgcttgt gaggcttata gtgatgtgca 60
ttaccgagag ggcccagaga tacctctctg atacacggag tgaaaaatcc taatcttgat 120
ctatgccaac tcccaaacac cttcggagac acctgtagag catctttata atctcccaat 180
tacgttgtga cgtttgatag cacacaaggt gttcctccgg tattcgggag ttgcataatc 240
tcatagtcaa aggaatatgt ataagtcag aagaaagcaa tagcaataaa actaacaatc 300
ataatgctaa gctaattgat gggctctgtc catcacatca ttctctaata atgtgattct 360
ggttatcaaa tgaccaacac atgtctatgg taaggaaact taaccacctt tgattaacga 420
gctagtcaag tagaggcata cgagggacac 450

<210> 7057

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-015-Q1-E1-H2

<400> 7057

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tgactctgcc ccttgacgcc tccagtgtat gaggttcgaa tacacctcgt ccattcggcc 120
gattgagcaa ggtgcagggt tcttgattga tgtgtgttgc gattgatttc tgcagtgcaa 180
gggagggcac ctggcctgcg tggactgcc a ctcgagcgc ctcgagaacc agcggcagtg 240
ccagaagtgc gagcacgatg gtggcttcga catgcggaac acgacggtgg atgccatcat 300
ttcgtcgctg aagggtggagt gcccgcacga aggttggtgg ctctgcatca cttaccacaa 360
gctcgccgat caccagagca tgtgtctgct cgcgccctgc anatgccccg tgccctgtctg 420
c 421

<210> 7058

<211> 229

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H3

<400> 7058

ccgggtcgac cgggatccgc aacaaagtcg cgatcgacga ggccatgctg cactcgcccc 60
aggaagacat cgcgagatg gtcacagtgc tgtacgcttc gtaccacctc ctcaacctgt 120
agaggatggc caccggcgac gtttcttggt tgatgtgttc ttcacatgat ttctgccttg 180
caagggatgg cacctctgct gtcttcaatg gcatgtctaa ctctgcac 229

<210> 7059

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-A10

<400> 7059

ggggacgctg cgaatgttcg acagaaggac caacgtgacg tggctaggtc gatgtcatgg 60
tagctgtctg ctccgcatct gcatggctgt gagcatgccg tcccatcgaa catggtggtg 120
cccaagggct cgggtacgag ccttcgcgtt ctgcgcactg caccacggc gccacgatct 180
acaccattgt cgtcgtgcc accgtcattg tacaccacca cagagtacag tcctgagaag 240
gttctgcagt caaagcgctt acgctcagga cgagcacata cgaacgccgt ccatgaactg 300
tgcagatgca acaggttccg agctgtatcg aaacacgtca tgacatgaag acagcagtca 360

<210> 7060

<211> 469

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-A11

<400> 7060

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cggatgatgat ggtgatgaaa atttgtaaga gcagaacaga ataaaaatgt tttaggtggt 120
tatcaacggc tctgcagaat gcacgagttg cttgtcgagg ttaaggcacc gctagataag 180
tgcaacacat aataatatca agtatgtcat gatcttggag ataagtgcaa cataaaaatg 240
tcaagtatat catgacctg gagataagtg caacataaaa atgtcaagta tgtcctgac 300

tttccaggca gaattgctgg gatttggtta actgcacaaa cattcttgat cagcgcttga 360
 tcactagatt tatacttaag cacttgataa caaggcactc attgggttg tgaaaacata 420
 tacagctaaa gaagaatatt attattgaca atctagggtt aacaaccac 469

<210> 7061
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-016-Q1-E1-A2
 <400> 7061

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 agaagggcac gaagatcacc ttcccggaga agggcaacga gcagccccac acgattgcgg 120
 cggacctcgt cttcatcatc gacgagaagc cgcacgcggt gtacaccggg gacggcaacg 180
 acctggtggc gacgcagaag ataccgctgg cggaagccct gacaggctac acggtgcacc 240
 tgacgacgct ggatggggcg agcctgacgg tgcccatcag ctcggtgatc caccgggggt 300
 acgaggaggt ggtgcgcggc gagggcatgc cgcttcccaa ggaccatcc aggaagggca 360
 acctgcggt caagtgcac atcaagttcc ccgccaggct caccgccgac cagaagtccg 420
 gcgtcaagag gtcctgnng cagtanagca ggtctgtgtg tgttgttg 468

<210> 7062
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-A3
 <400> 7062

ggggatcatc tatacgacaa agtgttctgg cacaaggag gtcaaattct gatgcaaattc 60
 agttccaaat cacaagcag gctgcaaaca aggtgctac tatgcctgtg cgcggtaggg 120
 ctgacagatg gaacaaacca agtggcccggt ctacctcagc acagaggagg cccgtaagcg 180
 aggtctttca gaacagcaag ggtaaggaga tgcagaatga gcctccaagg acaatggatg 240
 cgctctttgc acagatgaag cagcaacgga tgagggtcat gccaccgag caacccaaaag 300

ctcctaccaa tggccatcag tttaaccagc agcggcgtgg tcagcagcag cggcgaggca 360
gagggggata tgggtgtccgc agcgggtggtg gtaaccgttg agcatggcac ccatatagaa 420
cattatcact ggtgttcctc ggaaaggaga agcctcacc c 461

<210> 7063
<211> 462
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-A5
<400> 7063

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cgagacgaag tggcagcgca gcgtggaccc tgtgttcgag gagttgttat attgatatat 120
actgatataca tatataactt cgggtggacgc tggacaaggt ggacagggtc ttcagattgt 180
atccccatac aaaatcccg tcccaattct acaagccacc tgaccaggga aacctactct 240
ccgggtctcgt ggctgcgaat aattttgagc tcggaacact ctgtttgtgg cttgccgcct 300
ttcttttttc ggctgtgtgg accttttaca gcttctgatt tttctcgcac ctccaggag 360
ccggaacaaa cacctgtttg taccgatccc cttttcatct tttcctgatg aactgcttgt 420
attcggaata aatccacctc gtgtgatgat ggaaggaacc tg 462

<210> 7064
<211> 461
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-016-Q1-E1-A6
<400> 7064

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ccgacactgg cgagctcatc atgcacctgg agtgggttaa cctcccccca ggcattgtgc 120
gggtgatttga tttgatttgc aaagggaggc cagctattgc cttccttttg tgatcgtaat 180
gttgcttcct ctatatatga gctatgagaa taattaagcg atgtctatcc cattctttac 240
ataacaccca ctgtaatgat ttgtggatct cacaccagga tgggtcgtct ataatatgag 300
caacgtcttg gtgagacca cacatcatca cattgggttg tacgtaaggc atgtgataga 360

cttatgctac tgggggtaat gcttgttttc agttttgggt ctgcatatgt tgtatggcta 420
 ttttaattaa aaaaaggat attttgtccc aaaacaaaaa c 461

<210> 7065
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-A8
 <400> 7065

gggactgctt gagacttttc atccttcacg tggcttcagg caaggggatc cgctatcacc 60
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 gggggttatc ctgattttcc ggctaaacag acatgctcca ggtatatctc atctaatttt 180
 tgctgactga tagactocta tttttctaaa ggtaacttac agcatgctct aaatgttaaa 240
 ggtattttgt cggcatatga cgatggaatt ggacaactat tatgtccgga taaatgtacc 300
 atcttaattg gcaaaaaatg ttcaaaggag gaccagttgt ccacctgat tacccttaaa 360
 atcacgatcg atggttttga cgataaatat ctgagcttgc ctgcaccatc acttttgaaa 420
 gctttatctt ct 432

<210> 7066
 <211> 463
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-B1
 <400> 7066

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 gtagagctgc cttgtcaagt ctacttggcg gtattggcta cttctacggg cagtcaaaaa 120
 ttgcacttcc caaaggtttt tcacaaaaaa atggagataa atatattcca tattggcctg 180
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 agggcttcca tcagttagtc atttggcgct gggatgcccc tatatccatg gacataattg 300
 gccattgggt ggatctaatt aatgcggatg gatggattcc tcgagagcaa atattagggg 360
 ctgaagcttt aagtaaagtt cctgaggaat tcgttctgca gtatccttcc aatggaaacc 420

ctccgacatt atttcttgcg ctgcgtgact tggcaagtgg cat

463

<210> 7067

<211> 476

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B11

<400> 7067

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gggaagaggg ccatgtacga cgccgggctc tttgatcccc tgcacgacga cgaccaggat 120
ttctcggact tcatgcagga gatgctggtg atgatggata gcgtagaaaa cgagaagccg 180
gacacgctcg aagacctgca gaagatgctg gatgacatag tcaacggcga cggcggtagc 240
cgcgccactg ctggtgctgg tggtagcggc ggcggtggtg gtggctgcgg tggtcgcgtt 300
ccaccggagg ccaaccgcag aactcgtgct gcccttacc cgcagccttc gogaaggtga 360
tggacgcgcc ggtgctcgtg acgtgcacgc accgctgcgc ttgtaggaga gagatcagag 420
caagaagaga gcaaccagcg tgaaaaaaaa cattagcaaa tcagaattgt tgctcg 476

<210> 7068

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B2

<400> 7068

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ctatcatacc acatcacacc cattttaata gcatgttggc acacaaggta gaccattata 120
actcagagct aatcaagcat ggcacacgca acgatgatct ctaattgtca ttgcaaacad 180
gtttattcat gacaagctga atcaagaacg atgaactcat catatttaca caaacaagaag 240
acgtcgagtt cgtaccagct tttttcatcg cagtcagtcc atcatatatc atcattattg 300
cctttcactt gcacgaccga gcgatgtgga taatcataat agtgcacgtg cattggacta 360
atctggaatc tgcaagcatt caattcaagg gagaagacac ggtaatatgg actcttggtt 420
aaatctacaa tcatgtatat 440

<210> 7069
 <211> 454
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-B3

 <400> 7069

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 gcccgcgctcc ggagcggagg agtcgggagg aggcgtttcg ctctccatca tctctggaag 120
 aagatcccc aaagacaagc tcatttgaga ggggctaagg ccggaactgc aaagatacat 180
 gcagcgatta tcttctcaga agaaaagacg acatatctgt actattaagg tattttgggt 240
 cacttacgac tcgtgggaga attgatcccc ccaaggactt tgtgcggcaa ccgcgcccc 300
 cggggtagga ccctctgtgg gagacttctt ctcccgtttc gaagcttcgg ctccgaatc 360
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 ggctggagca gccagcgttt ggggcccgcg actg 454

<210> 7070
 <211> 461
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-B8

 <400> 7070

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 acgggttcat cgacttcagc gagttcatct cttctgcaa cgccaacccc gggtcatga 120
 aggacgtcgc caaggtcttc tgaatcagtt catttcacct cagccgtccg atccaggagc 180
 cgatccatct acgtacggct tcgtatatca atttcatgca actacctact ccggtcccga 240
 tccagcctca gttcacctg aggcgggccc taattttggt tgatcatttt ttgctacca 300
 gtagtaacta gtgatgatca ctgttccatc atttatttat ttatatcat cacaagtttc 360
 ttttctttct ctaccttttt gtcgatcgtc ggctccagct cgatccaacg atccatgctg 420
 ctaattgttt gtgtacgggt gatttaagta acctgtgcac t 461

<210> 7071
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B9

<400> 7071

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 gacgcccggg ttgtgccggg tgaggccggc tcctcaatca caagacggat tgaaaacttc 120
 aattgtgctt tccaaaatga atttaccca aatttacctt aaaaattacc ttaaataatt 180
 ttccacaatt tttttccgtc acaaaagtta actcaacctt tgtgcctaag ttaatgaatt 240
 ggtgggtgggt ataataccat tatatttaca caaaatatgt ccccatatat agtataaaac 300
 cttctcttat atatctcaaa cttatcacga 330

<210> 7072
 <211> 453
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C1

<400> 7072

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 gagatatgcg gggatgtcct gggcgaggtc gttgaggagg cgctgtcaga gctcgccggg 180
 tgccgttgat ggatgtcctt ctttatttgt ttgccctgct cggggtgggtg tccaccgggtg 240
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 tgtgtgtgtg tgtgtatagt cctcttgac tgcctgtat gctccagtca agtgtgcgtg 360
 cccactcccc tctctctgtc gcgccacatg ccgttacagt tgatacatte tattctacag 420
 taataatgat cgtgaatgat accaagaaaa aga 453

<210> 7073
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C10

<400> 7073

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agggtcgacg aagtagcaac cttgtctatc ccaccatggc catcgcccac aaaggacttg 180
cctcactggc ggtagatctt cacgaagtag gcgatctcct tgcccttaca aactccttgg 240
ttcaactcca caatcttgtc ggaggctccc aagtgaacac tagccaatct aggagacacc 300
actctccaag aagtaacaaa tgggtgtgtg gtaatgaact ccttgctctt gtgcttcaaa 360
tgatagtctc cccaacactc aactctctct cataggattt ggatctgggtg gaaagaagat 420
ttgagtggaa agcaacttgg ggaacgctat agattaagat t 461

<210> 7074

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C11

<400> 7074

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gcctctgcca tccctcatcc atctgccctt cttgctcttc gaccccttct ccgtcttctg 120
catatccctc agccatgcag tacaccggac caacctactg cttcccaccc accgtgccgg 180
agaggctcta ccctaccggc gtgtacgttg atcgcatact atgtgtgtgg gcgatatcaa 240
ggctgaggac cgcaaggaac ttcgccgagt tcttctctgc gtcgggtac caccatctcc 300
cgaggggatc tccaacgatg ttccgcgtcg aggaggtcat ccaaaaccgg gtggtagtgtg 360
ctctccttgc ccacttcacc aacacattcg acgccttcta cctcctcggc cgggtgtttt 420
gggtgtggctc cgagttcatc gctttcacc 449

<210> 7075

<211> 442

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-C4

<400> 7075

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gcaacgagggc ggtcgaggag gcgcggatca agctgctgga gctgcggcag gtgaacaagg 120
tgaaggctct cgtcggcgcc ttcgagaccg tcatggacga caacgaaagc cccgtcgccg 180
cccgcaagtc gcgggtgaac cccacgcct gaactacatt caacgagcac gaagctcgat 240
tgctgctgct tcctttatcc ctgctactct ttaatcacc c atcaaccaa tttgtcgtcg 300
tcgccactt atctataatt acggtaccgc ttatatTTTg caaggaggaa gatgatggag 360
gggttattat gatgtaataa taataatgat caaggaggat aaaanaaaaa aaaaaaaaaa 420
aaaaaaaaaa gcggccgctc ta 442

<210> 7076

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C6

<400> 7076

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gaagagtcag gtaagatcct gggaaagacc tgtaggttag ggtcaactca aaagaaacac 180
cgttgaacaa tttaaaagcg aaattgcgcc ggttgaaata aatggcttga atgaggtaac 240
atccttaaaa gaacttgatt gaaatgagaa tggaaacttg aaccttctga gatattttcg 300
aactccgaa acaattgatt accaagaatt ggatgattta gaaggtgcac cgacatgaga 360
aaccatttga accaaaaaaaa agatatgatt a 391

<210> 7077

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C7

<400> 7077

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tgatgggttca aatgtggaaa tttgcgggca aggttctgtc ctcttcgagg gtctcatagg 120
 agaacatcgc atactcaccg gagtatacta catcccaagg cttcgcaaca acatcatctc 180
 tgcggggaaa cctgacgaga atggatgcaa ggtggatatt gagaacggag tgatgacgat 240
 cttcgacaac ctctcaaacy tgctagcccg tgtaaactgc acacggaaca agctctatat 300
 cctcaacctt gatcaatccc aaccggagtg cgagctcgcc aagagtgatg atgattcgtg 360
 gttatggcaa tgctagattt ggacacgtca acttctacac cttgaataag atgtogaaga 420
 tggagatggg atctgggatg ccgtttattc accatg 456

<210> 7078
 <211> 476
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-C9
 <400> 7078

ggggtggccgg ggggacgagc gatgggtcttt tcctaccaat ccatccccct aggagcatgt 60
 gcgtagtact tcgtttcgat aactaataga tttttgcaat aagtatgtga gttctttgtg 120
 actaatgtta agtccatgga ttatactcac tctcaccctt ccaccattgc tagcctctct 180
 aataccgcgc acctttcgcc ggtatcatac acccaccata taccttcctc aaaacagcca 240
 ccatgcctac ctattatggc atttccatag ccattccgag atatattgcc atgcaacttt 300
 ccaccgttcc gtttgttatg acacgtttca tcattgtcat attgctttgc atgatcatgt 360
 agttgacatc gtatttgtgg caaagccacc ttcataatta tttcatacat gtcactcttg 420
 attcattgca tatcccgga caccgccgga ggcattcaca tagagacata ttttgt 476

<210> 7079
 <211> 469
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-D1
 <400> 7079

gtcgacgggg aattttgctg tgttctcatc caacattatt tttatttaca tgatggcaag 60
 caagcaataa ttttgttgta taagtcaatc atatgatact tcacaattgc taatacaaaa 120

ggtaggatg gacatacagc acaagatagc ctttcttgct cgtttctcaa aagacatggt 180
 tccgttggcc aagagtttaa cctgggtttg ccgtttcatg ctcaagaata aggataccac 240
 aaaggaatcc ggtcatataa aagcatatag taaaaagaag tgtacaagta taatagcgat 300
 agcagagagg aatgtgttcc tttatttata aacaataagg cgaattatag ctatgactga 360
 acttggcgta agatctgttt tagcttgatg gctctatgca aagctcccta gtgagcaacc 420
 gcggccttta accaatcaag aagttcgcca ttgtcaactc tactttttt 469

<210> 7080
 <211> 482
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-D12

<400> 7080

tccggacttg ccgggtcgcc gggggtcacc tcgatcggcg tccgcggcaa ggactccgtc 60
 tgcgtcgtca cccagaagaa agtcccggac aagttgctgg atgacaccag catcacgcac 120
 ctgttctcga ttaccaagta caccggcttg cttgccactg gcctcacagc tgatgcgagg 180
 tccttgggtc cccaagcaag aaatgaagca gctgagttcc gtaaaaaatg gggatatgag 240
 atgcctgtgg atgtattagc aaaatggata gcagacaaag cacaaatata cacgcagcat 300
 gcgtacatga gaccccttgg tgttgttgcc atgggtcttg gttacgatga agagaaaaat 360
 gctcagctct tcaagtgtga cccgcaggt cacttctttg gacacaaggc aactagtgcc 420
 ggactgaagg agcaggaagc aataaatttt ctggagaaga aaatgaagga tagccccag 480
 tt 482

<210> 7081
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-D3

<400> 7081

tcgacgggtc tgcaacattc agatccgtat gtatcttgca aatctctatg tctccctcct 60
 tgacttgatc gcggatggaa ttgaagcgtc tcttgatgtg cttggttctc ttgtgaaatc 120

tggattcctt tgccaaggca attgcaccag aattgtcaca aaagattttc attggaccgg 180
atgcactagg tatgacacct agatcggata tgaactcctt catccagact ccttcatttg 240
ttgottccga agcagctatg tattccgctt cacacgtaga tcccgccacg acgctctgct 300
tgcaactgca ccaactgaca gtcaccat ttaataaaaa tatgtatccg gtttgtgact 360
tagagtcac cggatcagtg tcaaagcttg catcgacata aacgttcaca acgagctctt 420
tgtttctcc atatacaaga aacatatact tagtcttttt 460

<210> 7082

<211> 460

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-D4

<400> 7082

gggctgtcat ccgagttcag ttctctgatg gagtaattct ccagggtgta ttccttccag 60
cggaggctac tggttcacta tatgagtttg tcgcggacgc tttgaagcag ccaggtttgg 120
aattcgatct tatctgccca gctgttctta ggtcacgtgt gctaccgcat tctccaaata 180
caggagagcg ggcacgcacg ttgcaagatg aaggcctggg accttctgct ctctcaaat 240
tcaagcccaa tgagactgat tctgttgtgt tcaccggctt gcttgacaag cttctggagg 300
ctagtgaacc atttacagct gcacctctt gattgttga gttcggggcc acattctccc 360
ctcaaatctt ctgttacatt ggacttcata ctgttgtaac tcagtcacag ggatatgtca 420
tctgcatact cgataggttg attgatagtc tggtagatag 460

<210> 7083

<211> 133

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-D7

<400> 7083

aagcgacgtc ggtcactgaa gatcacaact cttgacatgc atcctgggtgc agataaagcg 60
tcacttgatg ctcttagttc tcaagtgaag tctgagttcc taaggaaaag cagttctctga 120
agtcgtggca ttc 133

<210> 7084
 <211> 294
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-E1

 <400> 7084

 tccgagtgga cggggaccca gtcgattgac caatcaatgt catttgcttt gcaggcgtca 60
 cgcgctcaca tgccgatctc tgaggggatg ctcaatgtga gaacctcgtc acgatgtcct 120
 acatgcctta gcactgttcg cttactgtgc tcggagtctc atgggtcact cgcattgccta 180
 cggcagggtta atcatttcga tccttctcct gtgtggacca tgagttcaca gactctgcac 240
 atcgcttggt aacgtgcacc atgcaccttg tagaagtaca tctggtcaca tcag 294

<210> 7085
 <211> 464
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-E10

 <400> 7085

 gggcaattgg tgaccctctc ggagcagcag ctggtggact gtgaccagta cgacggcggg 60
 tgtaaccgcg ggtcctatca cagggcttac aattggattg tggagaatgg cggcctcacc 120
 acggcagcgg attaccgta cacggcggtg aggggcgcct gcaaccgcgc caagtccgcc 180
 catcacaccg tcaagatcct cggcggcggc gtgatccgc ccaggaacga gcccgaatg 240
 cagcttgccg tctccgggca gcccatcggc gtggccatcg aggtcggcag cggcatgcag 300
 ttctacagga gcggcgtcta ctggggccct tgccgggacaa atcttgctca cgcggttacc 360
 atcgtcggct atggcatcga cgcgctact ggggccaaagt actggctcgt caagaactcg 420
 tgggggcaga cgtgggggtga gagcggctac atcggcatgc gccg 464

<210> 7086
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-E11

<400> 7086

gggagatggt ggtagcactg ctcgacgagt ccgacctgtg catctccgat agcgcagtcg 60
aggagatcgt tgacaatacg ttcagtcaag cagactcgaa tggcgatgac aggatagacc 120
ccaaggagtg ggaggagtgc gtcaagaaga acccagcatc gctgaggaaac atgtcactgc 180
cctatctcca ggacattaca acggcggtttc cgagctttgt gatgcattcg gaagccgacg 240
attacagcgg aatcagcaaa taataaccgg gccttagtgc cacatgatcc gctccggcta 300
tctatgaaca tgctgctggg aggctggctg cgcgttcaat tcagaggcgc gtgagctgca 360
accggaaagc ccggagctcg aatgggggga gaacgcaagg gagccgatcc ggtagccggt 420
gagcgtgaga tgatgtccac cggacgatga cttcatgtcc atgcga 466

<210> 7087

<211> 496

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-E2

<400> 7087

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cgagaagtgg accaagagta ggacaacact ctcgtactta cgtacctggg gatgcttggc 120
gaaagttaat gtgtcgatcc gcaaaaagcg taagcatgga ccaaagactg tggactgtgt 180
taatttgggc tatgctatga atagtgttgg ctatagattt ctagtagtga aatctgaggt 240
acctgacatg aaggctcgga caattatgga gtctaaagat gctacattct ttgaggacat 300
tttccocatg agatatgtac aaagcacttc tagacaggaa tctgaggaga ctctgaacc 360
tgccatttcg atggaatatt ataacaaac acatgatgaa aatcccaggg aggataatga 420
ggaattcctt ggtangggca agagacaaag gactgtaaag acctttgggtg atgatttctt 480
catatacctc gtggag 496

<210> 7088

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-E3

<400> 7088

ggggaccatc atgatcatga agaataatata ggataataag gcggtgtatt accgccatgc 60
cccgttgagc tagctgatgt tgtttcggct agagaaaatc gttacgcccg ctcataattc 120
ctttttcgat gctctggaga ataataacta ctggtatatc attctatata tcaaggcccg 180
cttgtgaaat aaatgatcct gcgccccggt ttttgtgtcg tcgatcaaaa caaaataaaa 240
aatgaaaaaa atgaaaaaaa aacagaaaaa aaaaaaaaaa aatgtaaaaa acaataaaaa 300
aaaaatataa gaatcaaaaa aaaagaagaa ataaaaaaaa aagggggccc tccaaaagat 360
tcgaatttaa gattatcggt atgagaaatt aaaatctctt aaaaggggcg cctcaatttc 420
gttatgaggg tcatcttt 438

<210> 7089

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-E5

<400> 7089

ccggggcacg gggaaaagga aaagaccctt cagtcctatt tataaagcaa gggacatggg 60
tcagggtcga aaatcaagga gctgcaagtt tggaacaga gttgtcgct cgattatcgt 120
agatctatta aacaagaagg tatcacagat agttttttta tgatagatga cgtcacgccg 180
atttacagca atcagagaag ataacatcac ggcggttcat caaactataa gaagatgttg 240
aagatgaagt ttttgctaag gattgacatg aacctgttca aatcaatctg gggcctaattg 300
ttggggatat tactactggg cgtaaaccgg cctatctggg ccggattaac ttcatacagta 360
gttaagcatg ttaaagccca tgaaggtaga tgagggtca agaccataa tcggttgaga 420
gcctgtagcc gtaaaccggt gtcaatatat aacttgatt gtaag 465

<210> 7090

<211> 209

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-E6

<400> 7090

ttccggggcg acggggaaaa tgacgagaca cctcacacgg tcatacaatg ccagggtaccc 60
 ggttcacgtg acttccatca aggaaccgcg catctattaa tctggggatt cgcacgatcc 120
 tgtgagctct cttacacacc ggggatacca cagttcaact ctattgtgct aaatgaattc 180
 catccctatg atcacaatga gaaatcctt 209

<210> 7091
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F10
 <400> 7091

gggattgacg ccaagcttca gcagaccgga gggggctttc ctgcccctta gaaggagctt 60
 gctgcagcct ggcagttcta tgtcgtatgc tacctttaga actagagtaa aatgtaagaa 120
 gtgaaagaac ttgcgaggct atgattctgt gccatagcct gagggggggt ctggagggtga 180
 aagaacatcg gagtactgtt gatgtcgtga ctgaactatc atccattgcc taatagatca 240
 tgccttgttg tgttcccaat gatttgcaat agaagaaaca atttcagatg aaagtaaaat 300
 ccggcgctct aaaagattca aacctaattg agcctggcag ggacattaaa agtcctcgag 360
 aatgacaacc aaattcaact tcatgggcct cgcttttgca cgtcataaat gggaaaaacc 420
 cgggggttaac caa 433

<210> 7092
 <211> 474
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-016-Q1-E1-F11
 <400> 7092

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 aactatcaag ctcaaaagat ataagtgaag cacatagagt attctagcaa attctaata 120
 agtgggattc tctcaaaagg tgtgtacagc aaggatgact gtggtaaact aaaaagcaaa 180
 gactaatata atacacgacg ctccaagaaa aacacatatc atgtggcgaa taaaaatata 240

gctccaagta aagttaccaa tgaacaaaga cgaaagaggg gatgccttcc cagggcatcc 300
ccaagcttag gcttttggct attattgaat atcttggggt gccttgggca tccccaaagct 360
taggctcttg ccactcctta ttccattgtc catcaaactt ttacccaaaa ctagaaaact 420
tcacaacaca naactcaaca ggaaatctca taagctccgt tagtgaaaga aaac 474

<210> 7093
<211> 458
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-F12
<400> 7093

gggcataagg cctaccccg g caacaagacg gtgagtgaat ttgctggcga gcactgcac 60
ccagacatcg acgcggcatg caaggatccc agctgcagcg acggtgctta catcgaatgc 120
ggcagtgcgg cgtcgagatt ctgctacatc aaggccaccc ccgccaacaa gaaagccata 180
cagcaaaact tggattgctt caagagctgt tgcgcgcaga agaagagtga agactgccgt 240
aatgaatgca tcctcaacaa gagtagtccg gccgcttgaa aaatgaaaat gcatgcattc 300
cttccttctt tccttgtact tgggggtggt tccttcattt cagagtgcct cattcatgca 360
tgttttcaca tgcgcagtga ttcattctcat ttttttttgt tgaacattta ttttgtcttt 420
ttttttgttg cgaaaataaa attcattttg ttgttgac 458

<210> 7094
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-F2
<400> 7094

ggggaccaaa ctcaggctcc caacgcccaa agccttcgca tccagagctc caaacctac 60
gcgaggcgag gcgcggcgca gcggaggag aggccatgga tcccgatctg gtctcgaagg 120
cgttcgtgca gcactactac cagacgttcg actccaaccg cgccgcgctg gtggggctgt 180
accagaacgg ctccatgctc accttcgagg gcgagaagtt cggcgggccc gccgccatcg 240
ccggcaagct cggatctctc cccttcagc attgccagca caagatcgac accgtcgact 300

gccagccctc ggggccccag ggaggcgctc tcgtcttcgt ctccggcacc atcatcacgc 360
 gccccggcga gcacccctc aagttctcac agatgttcca tttgctgcca tctggaggga 420
 gcttctacgt gcagaatgac atg 443

<210> 7095
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F3
 <400> 7095

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 aacgaggcgg tcgaggaggc gcggatcaag ctgctggagc tcgggcaggc gaacaagggtg 120
 aaggcgctcg tcggcgctt cgagaccgtc atggacgaca accaaagccc cgccaccgcc 180
 cgcaagccgc ggtcaacct ccacgcctga actacgagta cattccacca gcatgaagct 240
 cgatcgctg cgctcctcc tttatcccg ctactcttta atcaccatc aaccaattt 300
 gtcgtcgctg cacacttata tataattacg gtatcgctta tattttgcaa ggaggaagat 360
 gatggagggg ttatcatgat gtaataataa taatgatcat ggaggaagat ggtgtatttc 420
 actttatata 430

<210> 7096
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F4
 <400> 7096

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 tccgctcggg tggaccggtt aaagaccgga ccagaccgag aacttttcgg gcctaatatg 180
 gcagaccgga ccgtccattt tatgtagcga gctaggaccg agcgagccaa gaccgaacgg 240
 gccacgagcg ggccgaaaag cccgcttggg acgtccagcc tgacggacga cgatccaact 300
 gacttggttc ctgccccaa gggctagatg tgcacgtaca aagctagcac cagtctccga 360

togatccctt tgtcagagac atatactagt actaactagt agagtgtccg tgcgttacaa 420
aatcacgga agaagaaag 439

<210> 7097
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F6

<400> 7097

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ctgaagcccg gtgggcatat ttcatcagg gaatcgtgct tccaccagtc tggggattcc 120
aagaggaaag tgaacccgac gcactaccgg gagccgaggt tctacaccaa ggtgtttaag 180
gaatgccact cctatgacca agaggggaat tcctttgagc tttctctggt aacttccaag 240
tgcattggag cttatgtgaa aagcaagaag aaccagaacc agatatgttg gctgtgggag 300
aaggtaagt gcacagaaga caaaggcttt cagagattcc tggacaatgt gcagtacaaa 360
tccactggaa tcttgcgta tgagcgcgtg tttggggagg gttatgttag caccggtgga 420
ttcgagacca caaaggagtt tgtggacaag ctggacctg 459

<210> 7098
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F8

<400> 7098

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atggcacacg ctgactcccc gaagcatccg ctcaactccg tcaaacatcc tgattttgat 120
gtcacctact ccagcgacac gataaccgtg gtcacgccc ctgttcaaga attcatccaa 180
ttaaccagtt aacttgccga ctaatcccta ctcatagggt caccgagccg ccgataaacc 240
gaaaaatcgt ctgattaatt gattaaatgg ccgattaact tgccgattag ccgattaatc 300
ccctactcgc tagccaaccg agcagctacc agttaacgat ttcctcaaca atgggtcatcg 360
cccacatagg ctaaaccaaa ctcaccagac ttgtacgaag agaaccactc cctggtgggc 420

gtcgcgatgaa aagagcaagc taaatccaac atccatgctt cagtttt 467

<210> 7099
 <211> 275
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F9
 <400> 7099

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 agcgtgcagt gtacgcgaga tcgatgaccg cttgggagaa gtgtggcata catatatgtt 120
 gcaggggtttg gagcgtgtgg taccatatgt atgtaatgcg tgacatgtct cacggatctt 180
 gtgatgtata ataattagcc ggctgcactg cactgcacgg tgcttgtcat actaacgtta 240
 atgaatcatg ttggtattga tgcattctccg tttgg 275

<210> 7100
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G1
 <400> 7100

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 agggagcttg agaaccaact gaagataaac aatgtcgagt cacagctata ctccctgaag 120
 atcgaatcct tgcaatctga aaatcagagg ttacaaacac agttgtctga aagctcaaag 180
 ttaacttccc agcttgagtt gacaaaatca aaatgcaagc tgttgaaaaa gaagttgaga 240
 ctggatgcgg aacaagcaaa ggagaaaatc acttcccttc agaacatagt tgattccttt 300
 cagtgtgaagg agattattga gggagaagtt gacggcgagg ctgagaagaa attaaagagg 360
 ctagaggaat tggaaaatga ggcaagagag cttagagctg caaattcaag gctgcagcag 420
 gagaattcac accttactag gcgattggag ctcacacgcc ta 462

<210> 7101
 <211> 468
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G10

<400> 7101

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atgcatggat ggtagaagtt gtgtgacaga tttgttgcatt gaggtgctct tttgattgcc 180
ttccttatga gtggaggctg ggatcgcgcg atggttaact cctaccatcc cttcggctac 240
gagcatgcgt agtaggactt tgcctcgaag gcaggtaacac ttttgcaata agtatatgag 300
ttccttatga ctaatgtgag tccatggata tacgcacact cagccttcca cattgctaac 360
cacgacatta ccacgcaact ttgcgcggta tcatgcaccc cttagttacc ttcctcaaaa 420
tagccaccat acctacctag tatggcattt ccacagccat tccgagat 468

<210> 7102

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G11

<400> 7102

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ataagatttg tagatcactg aatatgatat gtttgattcc ttgcaatagt tttgcgatat 120
agagatgata atatgtggga ggttctagta gatggttgtg tttagtaaga atattggtgt 180
taaggtttgt gattcccgaa gcatgcacgt atgggtctcct aactatgtaa ccaaattggc 240
gcacattgta ttttgattgt ttatctttac gtgaaggctg ggcgcacgcg atggttagct 300
cctaccaacc tcccccttag gagcatgcgt agtagtactt tgcttcgagg gctaataaac 360
ttttgcaata agtatatgag ttctttatga ctaatgtgag tccatggatt atacgcactc 420
ttacccttcc atcattgcta gcctcttccg taccg 455

<210> 7103

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G12

<400> 7103

gggtacatga ttcacaaggg ggcgacggtg aacttcatgg tggccgagat gagcagggac 60

gagcgggagt gggagaagcc aacggagttc gtgccggaac ggttcctgcc aggcggcgcg 120

ggcgaggctg tggatgtgac cggcaaccgg gagatcaaga tgatgccgtt cggcgtgggc 180

cggaggatct gcgccgggct gggcatcgcc atgctccacc tggagtactt cgtggccaac 240

atggtgaggg agttcgagtg gcaggaggtc accggcgagg aggtggactt cgccgagaag 300

aacgagttca ccgtcgtcat gaagaagccg ctgcgccac gcctcgtgcc ccgaagggcc 360

tgagacaaag tccatctcca tcagccagta gtcaaaccg accaatagtc cactcctatc 420

gcttcgggtcg ttcttgttta gttactctat ggttgataat ggttaattcg t 471

<210> 7104

<211> 460

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-G2

<400> 7104

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ctcagttcct gaggacgtct tcaatgagac aaccaaccat gtactcctac gtggcttctc 120

accgctacct ttaccaaadc gtattcacac acttagctct caacagtagg acatgttcac 180

caatttccaa ttcatccccg atgaatcaga cctgactcaa ctctaagcgg tagcaggcac 240

gacgaaaaaa gcatgaatga gtaggcacat cagggtcaa acaactccta ctcatgctaa 300

tgtgtttcat ctatttactg tggcaatgac aggtcatgca gaggaaaagg ggttcaacta 360

ccgcagcatg taacacttga attgttggtg tcctaatagca gtanaagaga gcaagagcga 420

gagaatggga ttgtatcgga atgaacaagg ggttttgctt 460

<210> 7105

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G3

<400> 7105

ggggtccaca cacagttttg aatcgattta tcttttttgc tgagagctgc tcagatgtcc 60
 aaataagttg aaatttttaag cgaacctcat gcatcaaatt gccaatcaca caaaaaatta 120
 gattttttta aattttttta gtatttattt tgattttttt tgaccgggtg catgagtctg 180
 ggcaccgaat tgggttttcg tttgtaaacc ccatttactg gtacaagagg ttatcagaag 240
 tctaaaacta aatgtaatgt agatctctag agatgtaatt tgcattgcat ttatagcaca 300
 ggaagtagta tcctggaaca tttggtgaca tcaataaaaa agaaagagaa gttc 354

<210> 7106
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G6
 <400> 7106

cccggggcgc cgggcaagat caagacctac ctggcgcgcc catggaagga gtactccagg 60
 accatctaca tccagaacga gatcgggcgc ttcacgcacc ccaagggctg gctcgagtgg 120
 aacggcgact tcgccctcga gacctcttc tacgccgagg tggagaacac cggggccggc 180
 gccgacatga gccagcgcgc caagtggggc ggcacaaaga ctgtcaccta cgccgacgcg 240
 cagaaggagt acaccgtcga agccttcac cagggcgagt agttcatccc caagtacggc 300
 gtgcccttca tcccggggct cctcccgag tcagaggcgg ggaggggatca ttaactcatc 360
 actccatccc tcacatggt tcattattcc gctgctccat tgctgctt 408

<210> 7107
 <211> 474
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G7
 <400> 7107

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 atcggttagt atcggttag cctaagtttt tgcttcttca catgatgagt gctatccttg 120
 aaatgtactt ttattttggt ttgcttggtg tttgaataat atcccaagat ctaaaattct 180
 taaatgttac agagtcttca catagttaca taattattcg actactcatt gatcttcaact 240

tatatctttt gtagtagttt gtcatttgct ctagtgttc acttatatct tcctagagca 300
 tggcggtagt tttattttgt agaaattatt gatctctcat gtcctactta tattattttg 360
 agagtcctaa acagcatggt aattttcttt agttatgaaa ctagtcctaa tatgatagac 420
 atccaagatg gttataataa aaactttcat atagagtgc ttaaatacta tgat 474

<210> 7108
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G8
 <400> 7108

ggggaagcgg tcgatcgatg ctgagacgcc gggcgggcgg gagtcggcac gcagcaacga 60
 ggcggtcgag gaggcgcgga tcaagctgct ggagctgcgg caggtgaaca aggtgaaggc 120
 gctcgtcggc gccttcgaga ccgtcatgga cgacaaccaa agccccgcca ccgccccgaa 180
 gccgcggctc aacctccacg cctgaactac gagtacattc caccagcatg aagctcgatc 240
 gcgtgcgcct cctcctttat cccggctact ctttaatcac ccatcaaccc aatttgctgt 300
 cgtcgcacac ttatctataa ttacgggtatc gcttatattt tgcaaggagg aagatgatgg 360
 acgggttatac atgatgtaat aataataatg atcatggagg aagatggtgt agttcacttt 420
 atatacgatc atcgacacga 440

<210> 7109
 <211> 303
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G9
 <400> 7109

tggactaggg cgtacagggc gcggagctgc gcagggtccac gtcttttcggg gtaagaagca 60
 ggacgcatga tgcgacgagg caggaggaca tgtactcgtc gtggatgaac gacggtggca 120
 gcgacatgct ggcggcgcggtc tggtcggacc tggagcagat ggtcgcctag ttaattaatt 180
 cacattttcg tttcagactc cagtatataa ggagaaaaag aaatatgtaa tcgttctttg 240
 ttttttttca aacttgttgt gtcggaacac tgataaaaag aaaatttcac gcccaaaaaca 300

aaa

303

<210> 7110
<211> 475
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H1

<400> 7110

ttccgaggtc gccgggggca gaagctgagg caccaggtt ccccgggca cggatcaaaa 60
agataatgca agcagatgag gatgttgga aaattgcact ggctgtgcct gttttagttt 120
cgagagccct tgaattgttt ctgcaagatt tgatcgacca ctcatacaaa attactcttc 180
aaagtgggtc aaagacactg aattccttcc acctaaagca atgtgtgaag aggtacagct 240
cttttgactt cctaactgag attgtcaaca aggtgccaga tctcgggtggc ggtgaatctt 300
gtggagatga aagaggatta cccagaagaa ggaaattttc aaatggaagc gaccagaga 360
atgaggagcc ccgatctagc aaaatgccca taagaagctt gaacaccagt cccagaggac 420
gaggcagagg tcgaggaaga aggcgagggc ggctccaac caagagaaag gaaat 475

<210> 7111
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H12

<400> 7111

ggggaatttt gtttgcagtt attttgattt gatttgcata aagcatggga ctgggcatcc 60
tggtgacgag ccatttctga gtgaggagcg gagtccactc ctcttgagaa taaccgcct 120
aacatggaag atacgaacag cctagttga tacatgagct atttgggcat acaaacaga 180
atgtttatth aaaggttttag agtttggcac atacaaattt acttggaaag gcaggtagat 240
accgtatata ggtaggtatg gtggactcat atggaacaac tttgggggtt atggaattcg 300
atgcacaagt agtattccag cttagtacaa gtgaacgcta gcaaaagact gggaagcgac 360
cagctagaga gcgacaacag taatgaacat gcattaaaat taatcaaacac cgaatgcaag 420
catgagtacg atataatgcg ccatgaacgc aaatatcg 458

<210> 7112
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LFB104-016-Q1-E1-H3

 <400> 7112

gggacgctgt tgattggtga acgtatggtg tgtttcttta agaccttggtg ctctggtaag 60
 acagtcttca gaggtcctgt gaatgatcat gcattgcaaa atgtcatttc cgagaatctc 120
 cggttcccggt ccttcccggt tgtcatcaac catgcctagg atctcatcag aggattgcta 180
 gtcaaggacc tgggtcaacag gctgggaaca ttgagaggag ccaccgcat catccatcac 240
 cttttctttg aacgggtgaa ctggctcctg atacgatctg ctgccccaac atagacaccg 300
 tcgtgccatg tcctgactct tgcgacggtc cgccatacta cagaaagcaa atgtctggac 360
 ttcgatgatct ccgagtagca gtactttgaa cttttctaga taagtcttta gtacatttag 420
 cacaatttca gctgatagtc tacaattttt ctgttgac 458

<210> 7113
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-H4

 <400> 7113

ggaaagtacc cacacctacg gcggctactc caacatggtg gtggtgcacg agcgcttcgt 60
 ggtccgggtc ccggacgcca tgccgctgga caagggcgcg cccctgctgt gcgcgggcat 120
 caccgtgtac acccccatga aataccatgg gctgaacgct cccgggatgc acctcggcgt 180
 actgggcctg agcgggctca gtcacgtcgc cctcaagttc ggtaaggcct tccggatgaa 240
 ggtgacggtg atcagctcat cgccggggaa gaagcaggag gccctcgaca ggctaagcgc 300
 cgacggcttc gttgtcagca agaacgccga cgagatgaag gctgcatga gcaccatgga 360
 tggcatcata aacacggtgt ctgcaaakat ccccatgggc cctctcgtcg ggctactcaa 420
 gctcaaaggc aagatggtca agg 443

<210> 7114
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H5

<400> 7114

ggggtactgt cgaagttccg cgttggttcg ctctccggcg tccgtttctt tgttccggcg 60
 cttggttttcg ctgtggtgcc tcttgctggg gttggttttcg ggacgccgtt ggggtctctgc 120

<210> 7115
 <211> 309
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H6

<400> 7115

aggagacccc cgccgcgctc gtacatgaga gaaggcactg gcgcagtcac ggcttagata 60
 tgaaagtttt ggacaccgag cggaactcag tcgagagctt atatatgaaa actagtgaga 120
 gagagaagac tatatattat caattagaag agaactatat acattgtttt tccctaagct 180
 caataaggtc tgtgtccttt gtggactcgc tttcttcttt gtagagacag aatatataag 240
 accgaggatt gcattcaaat ggaaattaaa ttcaagttta gaaaagaaca ttagaactgg 300
 caatgctaa 309

<210> 7116
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H7

<400> 7116

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 gaacgatgac ccgtacggtt acagtagccg gaagagaaaag atggatcggg aagcaaatgt 120
 tgtggcgcggt ttggcatcgg aaatggatgt gatgaacaaa accgtgagtg tactactagc 180
 cgaaagacat gcagctcggg cgcaacatga agatcatcca gcggatctca taagccagca 240
 gcggataagc aatgtggctt ccactgagge cccatcggct ggtgcagatg caccgacgat 300

cgaaattact gcaccggaac ctctggtggt cgaaattact gcacctgagc ctctggtgga 360
 caacattact gcaccggagc ctctcgcta ccccgaggac gatataaacg agatgataga 420
 gtgtcatctg tattatccta gcggga 446

<210> 7117
 <211> 464
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-A10
 <400> 7117

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 cgcggcctcg gtgtacgaat ggggtgggcag atgggatggc agtagggaac catggccttag 120
 agacgcgctt gtccgaaatg tggggtaagt tacggaagta cccccactga tttgaggtgg 180
 ttctttcggg tcaggggtac cacgggcatt tcgtgtgtcg ggatttcaca ggaggtggga 240
 gtttccgcac gcgttgtaat ttcggaatag caaggcgcgg gttgagatgg agggagttgt 300
 cggagcacac agagacaaag atatatctta aatatttcgg gctaacaagg cgcgggttga 360
 agacgcggga gtttcacatc acgatagaca gagacggtag cttgaatttt cggcataaca 420
 aggcgcagct tgaaatttcg gaagaacaag cttaacgtgt accc 464

<210> 7118
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-A11
 <400> 7118

aggaaggttc atggttcgga tcatggggta tttgcttcac atacggcacg tggtttgcta 60
 tagagggcct atcggcagtt ggacagtgtt acaataatag cacctacatc cggaagggtt 120
 gccagtttct attatcaaag cagctaagga atggtggatg gggtgagagt catctttcat 180
 ccacaaccaa ggcatacacg aacctagacg gggagaaatc acatgtagtc aacaccgcat 240
 gggcaatgtt ggcactaatg aaagctggac aggccgaacg aaatccgtct cctttgcacg 300
 aagctgcaag acttatcatg agcatgcaac ttggcaatgg tgacttccca caggaggaaa 360

tgattggaag tttcttgaaa a

381

<210> 7119
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A12

<400> 7119

tccggatttc gcgggtggcc gtacaccgct caccatcgac gtgcccgggt ggctcaaggt 60
gaaggtggag ccagaggcgc tggagttcac gtcggcgatg gagaagaaga cattcacggt 120
gaccgtgagc agcaggggag gcgacgccga cgccgggcag ctggcagagg ggagcctacg 180
ctgggtgtct gaagatcacg tgggtgaggag cccgatcatc gcggacgcca gggttgtccc 240
gacatgattc tgtcaggcgt tcgttgtact cagccagcct ggtagcata agcacaagta 300
tccatacagt tcacaacatg gagacattat cgttcttccc aactagcact actccttgag 360
gtcccgattg caaacatgca atcacacaaa tagggcactt atcaaaggag gtcaactgaga 420
taaccttgta tctttactgt atcaaatact actactcaaa atcctcaagt tgcccagt 478

<210> 7120
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A2

<400> 7120

ttaacccaac cctcccccaa accgaaccca accggaagga atccccccgc ccctgaacgg 60
tatttccaat tataagggcc taattgcctt cttccctggg aaatttgatt tttccagat 120
ccgagactga agtttcgtga ttttgaatta tactcagtga ttgtaataat cgggatactg 180
aggatgttta cactgtctca agaaatataa aaaaggatga cacatattct tggttctgaa 240
tttttgaaca tgcctgagca ttcataagat gcaggaacce tatttgggtt ggctttggct 300
tatgtcagct attgaactta ctagcttata aaccagatca tgc 343

<210> 7121
<211> 391

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-A3
 <400> 7121

cccggtcga cggggcggct gaactagcgg gagtaactga agtggctgaa gcccggtggg 60
 catattttca tcacggaatc ctgcttcac cagtctgggg attccaagac gaaagtgaac 120
 ccgacgcact accgggagcc gacgttctac accaaggtgt ttaaggaatg cactcctat 180
 gaccacgaag ggaattcctt tgagctttct ctggtaactt ccaagtgcac tggagcttat 240
 gtgaaaagca agaagaacca gaaccagata tgttggtgt gggagaaagt caagtgcaca 300
 gaagacaaag gctttcagag attcctggac aatgtgcagt acaaatccac tggaatcttg 360
 cgttatgagc gcgtgtttgg ggaaggttat g 391

<210> 7122
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-A4
 <400> 7122

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 gctcccaaaa aaccttatta cccttctccc gtacaggact caaagcgggtg tggtttcgga 120
 ggctactat cctgactcgt ggtgcatgct gcaagccggg atgangaaga caacagtagc 180
 tcagagaatg gaaccggtgg cgagaggaag gagaagttct ggtgcatctc tctgggagga 240
 ccgacctcnc ttttataggc gcaagagaag gaggcgagaa gctgcgccgg gagctgagct 300
 gaagggatcg agggagacga aacgaagagg cagcagccga aggtgctgc gtctgtattc 360
 aatatccact acagcaaaaa ctttctagct cccgagtggc ctttcgtata cccgtagtgc 420
 atggcaaaaa 430

<210> 7123
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A5

<400> 7123

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agctgttgcg gtggacgatg tcgtcgggga aagaggctcc ggctgggcag cggtgaggtg 120
gcggacggag caggggtggg tttcgcggct ggagcggaga ggttatggca gcctgggatt 180
tcgaatggcg aaaaggaggc gatgggaggg gtcaaccatg acttagggac acgcttgtcc 240
aaaatgtagg gtgtgttaca aaagtacccc caccaatttg aactagcggc cttttcggct 300
cagggttaga agtgggattt cgtgtgtcgg gatgtggcag ctggagggag ttttcgcgca 360
cattgtaatt tcaggat 377

<210> 7124

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-B1

<400> 7124

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cgagggacat tgggtcccggt ttgtcccacc aaccgggacc aataggtcca gacgaaccgg 120
gaccaatggc ccacgtggcc cggccggccc ctggggctca cgaaccgggt ccaatgcccc 180
cattgggtccc ggttcttggat tgaaccggga ctaatgggct ggatcggcct ggaccattgg 240
ccccctttct actagtgtta tagaatgctt catgtgcttc acttatatca tttgaagttt 300
ggattttcttg tttctcttca catagaaaac tgatgttcgt agaatgctct tttgcttcac 360
ttatatttgt tagagcatgg tctttttag aaagaattaa aatctc 406

<210> 7125

<211> 349

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-B10

<400> 7125

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atgctaattg catcattgcc tgctactcat atatagtcac ccttgcttta gacaccttgc 120
 gtgatatcca tctatcaact gtacattaat atacagctca tagagcttcc cctacatott 180
 cgaggcgtaa cacatatgct catactgogg cacttccaca tttttatcgt catagtttgt 240
 gcgctagtgc atcccttata tatttttaaag cattgatgtc gatcgactat tgattgactg 300
 atgatgtctc acgcttcact tagattatatt tgagactcct gcacaacat 349

<210> 7126
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B11
 <400> 7126

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 ccgcggtcgc ggctcctgct tcgagctcaa gtgcaccaag ccagaggcct gctccggcaa 180
 gccaccatc gtcaccatca ccgacaagaa cgaggagccc atcgccccct accacttcga 240
 cctctccggc cagccttcg gctccatggc caagaagggc gaggagcaga agctgcgcga 300
 cgccggcgag gtggagatca tgttccggcg cgtcaagtgc aagtaccgcg cgggcaccaa 360
 ggtgaacttc cacgtggaga agtcctccaa cgaaaactac ctggcgctgg tgatcaaatt 420
 cctccaaggc gacggcgacg tgggtggcgt ggacatc 457

<210> 7127
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B3
 <400> 7127

atgatcgatt agattgctgc tattgctttc ttcattgactt atacatgttc ctatgactat 60
 gagattatgc aactcccgat taccggagga acacattgtg tgctaccaa cgtcacaacg 120
 taactgggtg attataaatg tgctctacaa gtgtctccga tggctacttt tgagttggca 180
 tagatcgaga ttaggatttt tcaactccgat tgtcggagag gtatctttgg gccctctcgg 240

taattcacat cactataagc cttgcaagca atgcaactaa agagttagtt gcgggatagt 300
gcattacaaa acgagtaaag aaacatgccg gtaacgagat tgaattggta ttgagacacc 360
gacgatcgaa tctcgggcaa gtaacatact gatgac 396

<210> 7128
<211> 431
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-017-Q1-E1-B4

<400> 7128

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gccttgggccc tgaaatccag agtttgaacc gccacctcca aagtcggggcc cgtgagagcg 120
gatcctgacc cgccatgcgg tccgtgattg tcttgataaa aaccggaatt tctgtattcc 180
ctcatgatga agcaatcttc ccatagatga gtggccgggt tatcttgaga accgtgcttt 240
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gacgatttcc ccttacgacg ctgattatta ttctgcgtgt tgggtattggc cacaaagtcc 360
gaatcgccgt cggttctgctt gcgcttaaca ttattacctt gacnccgctt attgtgccgc 420
tgccccctttg c 431

<210> 7129
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-B7

<400> 7129

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cagcgggggcc ctcaccaggc ctccacttcg ccggaccacc gtatcctgcc gggcaaaggg 120
tagccccggc gtggcgtact gcacgctacc ggttctgcag ctactctatt atgtcagaac 180
acttgagagg gatgaaagtg aaacagcagc accagcagca gcgaagatac tgctgctccc 240
tctcactcg taccctgctc ccgctgggtc tactcctcac cggagccaac cgcaaacagg 300
gcagattgtg atcatttctg aactagcaag atacagcaca gcgcagcatt ctgtctatat 360

atccctccct ggttccctgt ctgaactttt gtttgaaaca gagttcctga acttcctaata 420
taacatg 427

<210> 7130
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-C1

<400> 7130

gggtcgagg gaattcacca ttaacaggct aattgcccta ttatcaataa tcaatttttaa 60
tctaattgaa attcatatta agcacataat atatttcatt tccatattaa ggaagcagaa 120
tttcataatt gaaatacatc agagtacaac atgatatagc ttcagcactc agctacccca 180
ttacacaact gcaccagcat caagtttcac atgcaacatg tagaaccttt caaaattagc 240
atcatagaca gtatatagac agatgcatct catctggaaa agtgctgaag cggaaggcga 300
atattgagcc ttcattcatg ttgaaggctt ttgcaacttt aggccagtgc ctgtggatga 360
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<210> 7131
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-C11

<400> 7131

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gaacgcccac ctgtccaaag aacaggagga ggcaaaccag agacggctga aagagctcaa 120
ggaaaaattg actccagtca ttattgcaaa aacgccgtca caagatctta gaagaacaaa 180
ctcaatggag tggtagacat gagccaagct cagtagccat ccccttacag ctatgtagat 240
tttgatttgt ttgtctgtca ttcctctgtt tattggagtt aactcagttg ttgtaactta 300
gtagatatag cataaacagc ttaaattggaa tcataatgtg tagagcggaa ggctgcgttt 360
gagcaaaatg gaatctcatc agcagcttat attctgtctg atttgccttt c 411

<210> 7132
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-C8

 <400> 7132

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 aagattgcag catcaagggt atcacttcac tggatttttc tacttcttgg tgggcagcta 180
 aattagtttc cctgggtccgt ttctcaacta tcacagaaga actctttact ctgtaatttt 240
 ctctttattt gtgctgaagg catagatcaa gtgctacatg gctatgctct tcggagctta 300
 gagcatcagt ggttggcctc ctttctattt gttctttttt ctaggatttg cgtgtgttaa 360
 tcggatgaat atatggaagg atacagagag gccagagagt ttgctatcaa attctcaagc 420
 agcaagaaga tagctagcct aaatg 445

<210> 7133
 <211> 276
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-D11

 <400> 7133

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 gatcagactg ggaggaagca ataaaaatgc caattggggt agttccagct ggcacaggaa 120
 acggcatggc caaatcgctt ctgcatgctg ccagcgagac gtgctcagtt tcagacgccg 180
 tatttgccat tatcagaggt catagtatgc tttcaggcac ataataaag tttccacggc 240
 agtttcaa at agagaaatct gatggaaaca acaact 276

<210> 7134
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-017-Q1-E1-D3

<400> 7134

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gccanaaatc aggtcgccgc gagcttcgcc gcggagggcg ctgtcatgaa cgagctgaag 120
cagtggaacg acctctacgg cgaaggangg tcgaggaaga aggagcagct gacctacttt 180
ttgtagaacc ggaaggatgg tggatgtgtc gtgttgggca aatcgctgaa gccttggcag 240
agcatgagca tacatatgtt ggtgggaaaa ggatagagga tttcctgtga gcaaccgtga 300
gttaggatct tggagtgaat ggactccttg agatgtgtgg cagggggcat tggatcatgt 360
acgattcttt tatacgaaca agtattgtag ttat 394

<210> 7135

<211> 382

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-017-Q1-E1-D4

<400> 7135

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gggacaaggg caacgccttc gagttcctgc tcgagtcgct gggcttcgcc gactgccccca 180
acgtgctgcc cgtctacatc ggcgacgacc gcaccgacga ggacgccttc aaggtgctgc 240
gccggagggg ccatggcgtc gggatcctcg tctccaagca cccaaggac accagcgctt 300
ccttctcgct gcangagccg gccgaggtca tggagttcct gctccgcctc gtcgagtgga 360
agcagctctc caaggcgcgc ct 382

<210> 7136

<211> 457

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E10

<400> 7136

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tccctccttc cccggtgagt ttcttggag taggggagat acccctttgc gaccaatggc 120
 aggatcttcc atcagcacca ctctggctc ccaattcctc ccatcttggc gcccgcatcg 180
 ctgtccatgg cgcacccctt tgggtgctc cagagtggc gccggtgctg gcaactgtgc 240
 tcgttgata caacatgctc ttctttgaca accatgggtc acggcgacga ggtgccttgt 300
 tccgtgcggt tcgttggtca tcggagtcac ctcggttttt ttgcagtaca gagaagctac 360
 ggtgcagtcc cttaacctga gcatgatact cacctcccc tgacattgca gttcgctgta 420
 gtactccggt aatgccatgg cgctggagtt cacagtg 457

<210> 7137
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-E11
 <400> 7137

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 tgaacccgaa ttatacggag tttaggtttc cgcagataaa agctcatcct tggcacaagg 120
 tttccacaa gaaaatgcct cctgaagcca tagatcttgc ttcacgtctt cttcaatatt 180
 caccaagcct ccgttgcaact gctcttgacg catgtgcgca tcctttcttt gatgagctac 240
 gggagcctaa tgcgcgctg ccaaacggac gcccgttccc acctctgttc aacttcaagc 300
 atgaactggc caatgcttca caagacctca tcaacaggct tgtgcctgaa catgttcgcc 360
 gacaagctgg tcttgctttc gtgcatgcgg ggagctaaat atgcgcaccg gtgccctcaa 420
 ccttgcacct tattgttttg ccatgggcag aagggtggtg gtttaaga 468

<210> 7138
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-E2
 <400> 7138

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 ttttcaatct tcacgcaata cataagcgtg agccatggat atagcactaa ggtggaataa 120

aatatggtgg gtgtgaagaa cacaccaagg gtgacgatat tctcatatca actatgcgta 180
tcaatgggct atgaagatgc acatcaatac atatcactgt gagtgattag ggattgccat 240
gcaacggatg cactagagct ataagtgtat gaaagctcaa attgaaacta agtaggtgtg 300
catccaaact gcttgcccac gatgatctat ggcaatttga agaagcccat cattggcata 360
tacaagccat gttctataat gaaaaaaatc cactagtata tgaaagtgaa aacat 415

<210> 7139
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E6

<400> 7139

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ttcgccagct accggaaccc gctggggatc tgccggcaact acacgggtggg caaatgccac 120
acgccaagg ccaaggatat tgtgacgaaa gatttcgtgg ggaacaggag ctgctgtctg 180
gccgtgtcgc acgacgtgta ctctggagaa ttcaactgta cgtgcaccac ggtcacacat 240
cacatccatg caatagtgat caactaggca taggaacgtg gacctcacat gtaaaactatc 300
ctcacagata taccgctagc tttatcatcc caacaccttc tgcacacag cccattttcg 360
ctatcaggc 369

<210> 7140
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E7

<400> 7140

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tttcataatt gaaatacatc agagtacaac atgatatagc ttcagcactc agctacccca 180
ttacacaact gcaccagcat caagttttcac atgcaacatg tagaaccttt caaaattagc 240
atcatagaca gtatatagac agatgcatct catctggaaa agtgctgaag cggaaggcga 300

atattgagcc ttcatcatg ttgaaggtct ttgcaacttt aggccagtgc ctgtggatga 360
 ttgaccgtcc gtcctgcac ctcttcagga acacttcaat attgaaccgt ggggtgt 416

<210> 7141
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-E9
 <400> 7141

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 aaggtggtcg tggtagacta tgtgtattca ttcttgagga ggaacttggc agaggggtcac 120
 aaggtgttgt ccattcctaa agatgagctg ctcaaagttg ggatcacata tgagatatag 180
 agatgttttt tttttgtttt tttttttttt tgaaacggaa cacagattgc attcctccta 240
 catatcattg ctggggcaa atccccagctac aaggttctga acaaactctg ggaattgtcc 300
 caaccaagta atacatgcac cagagttaa tgttgctccg aaaaaataaa atccatttaa 360
 aacaaaaaaaa aagcggccgc tct 383

<210> 7142
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-F10
 <400> 7142

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 tgtggctctg gctagaccat tttgagcggc acggaggtac gcatctcccg tattgaaggc 120
 atccaatgcc tcttgggaga aacaagcacc acgaagaatt gtccggcgac gctgtgggtt 180
 catggaactc tccacctcgg aattgggtggc agacagcccg tccgcatcct ctgtcagagg 240
 agcgtccggg gcatgcctcg tggtcgtctc cgcttctgga cccggccttg gagcctggct 300
 ggtggaggcg cggttggcaa cctctccgga tgtagtcccg cgagcgtct ttttcctaaa 360
 aaaagcacgg gcgttagcat gccttgaagg aataaacct gggaataaaa cggcacgcca 420
 tactgttgtg tccgcatctc aatccggacc gcac 454

<210> 7143
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-F11

<400> 7143

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acttgtgcag ggtttgtgag aacatcccca ttgtgctgtg tggcaacaag gttgatgtga   180
agaacaggca ggttaaggcc aagcagggtga cattccacag gaagaagaac ctccagtact   240
atgaaatctc tgccaagagc aactacaact ttgagaagcc cttcctttac cttgctagga   300
agctggctgg tgatcccaac atccacttcg tcgaagcagt ggccttaag cctccggaag   360
tgaccttcca cttggccatg cagcaacagc acgacgctga gcttgccggt gcagtggcac   420
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<210> 7144
 <211> 397
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-F2

<400> 7144

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aggagtcccc aaccttagca gtgccggaca ttggacggcg gcaagtagga cgcgtggctg   180
acggtgctcc tgtcctcggc cgccatcgtg tccactgttt ggcagtcgcg tccgcgtctg   240
gctacgctgc tattgcatcg cgagcgacga cttgagcgag ggcagcgtcc tcgagcttca   300
tccccgaaga caaagctctc ctgtagagcg ttcacgctcg cggtcatggc ggatgtggtg   360
ccaggtagca ggacgatgcg ctatggggga aaaanaa                                397

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<210> 7145

<211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F5

 <400> 7145

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 gccacggcga cggcaagaag gacggcgacc acaaggagaa gaaggacaag aagcacaaga 180
 aggacaagaa gcacggcgag ggccacaacg acgacgacca ccacaacacc atcatcgcat 240
 cccattagca ttctaccatt ttcctcggag agaagtagcc agaaacagca gcgccatggc 300
 cggcatcatg cacaagatcg aggagaagct ccacatgggt ggcggcagcg acgagcacia 360
 gaatgacgag gagtacaaga atgcggacga gcacaagaag aacga 405

<210> 7146
 <211> 343
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F7

 <400> 7146

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 agcattaagt ctgccctcat cagatgttcc agcgtagtac acacatctgc cggttcaggac 120
 gatgtcgggtg aactactaa agtggacagt ggtacatcat atcatgaata cacaatggga 180
 aaacaagcac gatacctgcg taatgactaa tgttgtctac gtgtcgaca cttcatgcat 240
 accagatcgg aggatttctg gactgatgta tgctgtcatg tctgttttgc tgatgcatct 300
 acttccttag cacatctgtg aaatcttgct ttgctcgatg gca 343

<210> 7147
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F8

 <400> 7147

attccccgggc cgacgtatgt cgtgaacaag ggtaagggttc ccggagtcta cgatgactgg 60
 gaggagtgtc ggagacaggt tcaccgattc agcggtaaca gttacaaagg gtacacacta 120
 gggccgaggc cgaatctaga tacgcccgtc atctagcggg agaggggagg gagcgttgga 180
 ggaaccggat gaagacgagt ttcacgtgta tgatgctcat cgtgatgacc gcagctctct 240
 tctatgtgat ggtagtttag atgatcgata tcgacttgta atgtgaagtc aaactcgcta 300
 ctccgggtct cgagacttgt aatataatgt tctatctttg tttggctctt tcaattcgga 360
 gactaatatg atgaattgta ttcggagact aatatgatga attgtattca aagactaatt 420
 ttt 423

<210> 7148
 <211> 472
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G10
 <400> 7148

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 ccctgcgtcc gaaaaaggaa aaatctacgt aggattattg attactgata taagccagcc 120
 tcttctaaaa atgtaataca tatttaattg ggcgtggcta tatgtcaatc acgtgaaaat 180
 aaatttaggg tcagtcactt tttcttttag ggcaagcagg cacgaaggaa cgctagccat 240
 atgtaagtag tattagcgta aagtggcagt gctagcta at tcacgtgtgc acgtctattt 300
 tccctttgtg tgcgcgcgag tgtgtctgcg cgtgcacgct gccacatgtg catgtgctcg 360
 catgcgtgtt actccatcta tttctaaata tttgttttcc tagagatttc aacaagtgac 420
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<210> 7149
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G11
 <400> 7149

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ggggaagagg gccatgtacg acgcgggct ctttgatccc ctcgacgacg acgaccagga 120
 tttctcggag ttcatgcagg agatgctggt gatgatggat agcgtgaaat actagaagcc 180
 ggacacgctc gaagacctgc ataagatgct ggatgacata gtcaacgggt acggcggttag 240
 ccgogccact gctgggtgctg gtggtagcgg aggcgggtggt ggtggctgct gtagtcgctg 300
 tccagcggat gccaaaccgca gaactcgtgt cggcccttac acgcagcctt cgctaagggtg 360
 atggacgtcc cgggtgctcgt gacgtgcatg caccgctgca cttgtacgat agagatcaga 420
 gcaagaagag agcaaccag 439

<210> 7150
 <211> 303
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G12
 <400> 7150

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 cagcaatgac cggctgattg tatcgctgac tggaaactgca tgcacccatg ggatacgcaa 180
 gcgagtatga cactgggaac acacgctaata aataatctgc tggaggtagc tactcacatc 240
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 gga 303

<210> 7151
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-G2
 <400> 7151

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 atccgtgtca acccaacagt cactttcaga gatacccata gtgtaccttt atagtcaccc 180
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tctcatgggc taaggaaaag atacttgaca ttggaaaagc tctagcaaac gaactacacg 300
atctttgccc tatgcttagg attgggtctt gtccatcaca tcattctcct aatgatgtga 360
tcccattatc aatgacatcc aatgtccata gtcaggaaac catgactatc tgttgatcaa 420
cgagct 426

<210> 7152
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-G6

<400> 7152

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aaaggcccaa gaataattat ttctgtgatt ccaaaaatat tggtttgagt tttagctctt 180
gccaatatct tcagagatta gcaggaacat tttgttgggg tcatttgaaa atattttaat 240
gttgatcatt tttaaaagat ttctgaggct tgagaattcc ctcaattcaa tttccttgaa 300
tttaagatga tgcatggatg catatgcaat gacaagcaaa ggccaaagct agggctgtga 360
cagccatgct ggagtccgga ccgcttcggg agcctgctct caacgccttg gcctctctag 420
acgccagctg cccgcggcat gcatgcat 448

<210> 7153
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H10

<400> 7153

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agatagactt tgaaatagga gtcttggaat aatgctgaat tcaaagggtt atttctttct 120
atagtataag aaagaaataa aatttatctt tatttctata gtataagaaa aacaaatagt 180
ataagaaaaa caaatcgaat caaatcatg gatttaccac gacctcgggt gtgactccat 240
agataaaaat gggaaatttc tctcttcgag accattgaaa aagggcattg aacgagaaag 300

aaatcgtcca cagatgataa aactatcata tgccttgga agtaatatga ggtgctcgga 360
aatgggtgaa gtaattgaat aggaggatca ctatgactat agcccttggt agaattccta 420
aagaagaaaa tgatctatct gatactatgg atgactg 457

<210> 7154
<211> 61
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-017-Q1-E1-H2
<400> 7154

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g 61

<210> 7155
<211> 422
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-017-Q1-E1-H3
<400> 7155

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cacaagaaac ggcatggcca aatcgcttct gcatgctgcc agcgagacgt gctcagtttc 180
agacgccgta ttgccatta tcagagggtca caagcaggcc ttggatgttt gcactatagc 240
gcaaggggag aagattgttt tcagcgtgct gtcaaccacc tggggtttgg tggcggatgt 300
tgacatcgag tccgagaaat acaggtggat ggggagcgcg cggttcgact tttatgctct 360
ggttcgcata atgaacttgc gccgataccg cggaagtgtc cacttcgtgc ctgccccggg 420
ct 422

<210> 7156
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H6

<400> 7156

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cattcacatg gttagtcata aaatcctaca taaaacttgt agatcactga atatgatgtg 180
tttgattcct tgcaatagtt ttgcgatata aagatgggtga tattagagtc atgctagtgg 240
gtggttgtgg attgcagaaa tacttgtggt gaagtttgtg attcccgtag catgcacgta 300
tggtgaaccg ttatgtaacg aagttggagc attaggtatt tattgattgt cttccttata 360
agtggcggtc ggggacgagc gatgggtattt tcctaccaat ctatccccct aagagcatgt 420
gcatagtact ttgttttgat gact 444

<210> 7157

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H8

<400> 7157

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gctgcatata tatgcatgaa ctttcaactg gagataactc agatgacatg catgcagggt 180
gcatacatgg aacttgagat agggaaaatg tttcgtgttt tcttctgagt ctatgttttt 240
ttcttctgcg tttatgtact cggtttcctt acggccatgc tcgaaacttt ttcaagggga 300
gaccgggctc ccataactct tttctggacc gtccttttcc tgctgggctc tttcggccgt 360
ctgaggacac ttgctggaca taaggccttc aagataatat tctctgtgca gtggggcctg 420
t 421

<210> 7158

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H9

<400> 7158

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ctctctgcat gctcactaaa tacgtccaca acagcatgct gacacgcgct atgacgtggt 120
acattatatt acatgagtct cgattagtat catctgtcta gaggagtatg attcacttgt 180
catacactgc catcctgccc attaaggagt agttgatgca aatatatatg acggcatatg 240
ctcgaacgaa taaggatgct gacgctaagt aagatgatta cacaacttca accaattagt 300
actaaatgca gtaacatgca ccaatcatgg ccaattgatt tggacacaca cagtgacaaa 360
ttggtcgaag ttgaacatcg acttgactaa accacatca 399

<210> 7159

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-A10

<400> 7159

gacagccaac tggatcgtct gataaccac aagtataggg gatcgcaaca gttttcgagg 60
gtagagtatt caacccaaat ttatagattc gacacaaggg gagccaaaga atatttgtaa 120
gtattagcag ctgagttgtc aattcaacca cacctggaga ttaattatct gcagcaaagt 180
gatcaatagt aaagtagtat gatagttttg atatcagtag cagcagcaat agtaatggta 240
atagtgatag cagtgatttt gtagcaagtg caacagtaac gatagcagta gtgacttggc 300
aagaacaata tgagagaaat tcgtaggcat tggatcgatg 340

<210> 7160

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-A4

<400> 7160

cggtcgtaga tatccggtcg acgcggccgt tatatgatga cgtgggagca tgatttattt 60
attgattgtc ttccttatga gtggcggtcg gggacgagcg atggtctttt cctaccaatc 120
tatcccccta ggagcatgcg tgtacacttc gttttgatga ttaatacatt ttcacaataa 180

gtacatgagt tatttatgac taatgttgag tccatggatt atacacactc tcaccctcca 240
ccattgctag cctcccggtg accacttaac tttcgccagt aacatacacc caccatatac 300
tttcctcaaa acggccacca tacctaccta ttatggcatt tccatagcca ttccgagata 360
tattgccatg caactttcca ccattccggt tattatgaca tgcttcatca ttgtcatatt 420
gcttttcatg atcatgtagt tgatattgta ttc 453

<210> 7161
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-A9
<400> 7161

gacggggatg gaaaaactgc gtcgactcac taccagcgcc tctccgcgat ccaaatectc 60
ccgggaaagt tcttggttga tctcttctc ctcgaccgcc tcccagggtc ttgggtgtagc 120
ttttgccact ctcaccagga gatttcatgt ctgatcttga cgttcagatc ccaactgcct 180
ttgacccctt tgccgaggcg aatgctgggg acgctgggtc agctgccgga tcaaaagact 240
acgttcatgt acgcatccag cagcgtaatg gtcgcaagag cctgatcact gtccagggtc 300
tgaagaacga gttcaactac cgctagattc ttcaagaacc tcaagaagga attttggccg 360
ccaagggtac agttgtccaa gacacagatc ttggacaggt catccaactc cagggtgatc 420
agaggaagaa cg 432

<210> 7162
<211> 414
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-B1
<400> 7162

ccgggtcgac gcgggatatg tattttgctt ggagcgtctt gtatgatatt agtattttct 60
ttttagttaa ccacaatcaa cttttctgta cacaccttc gagagaagcc ccacttgatt 120
ggaatttatt agaatactct atgtgcttca cttatatctt ttgagctaga tagttattgc 180
tctagtgtc acttatatct tttagagcac ggctgtggct taattttgta gaaattgtta 240

gtctctcatt cttcacttat attattgaga gtctcttaga acagcatggg atttgctatg 300
 gttataaaat tggctcctgaa tggtaggcat ccaagttggg tataataaaa cctatcatag 360
 gaagtgaatt ggatgctatg atcaatttga tacttgataa ttgttttgag atat 414

<210> 7163
 <211> 332
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-B10
 <400> 7163

gggtcgacgg gtaaggtaaa gattcgatgg actatggaat aaggagtggc aagagcctaa 60
 gcttggggat tcccaaggca cccaaggta atattcaagg acaaccaaga gcctaagctt 120
 tgggatgcc tggatggcat cccctcttct gtcttcgttc atcggtaaact ttacttgag 180
 ctatatTTTT attcaccaca tgatatgtgt tttgcttgga gcgtcatgtc attttatttt 240
 gttttgcttg atgtttgaat aaagtaccaa tatctgaagt tcttaaagt tagagagtct 300
 ttacatagtt gcacaattat ttgactagtc at 332

<210> 7164
 <211> 336
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-B11
 <400> 7164

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 tggctctttc ctaccaatct atccccctag gagcatgtgt gtagtacttt gtttcgataa 120
 ctaatagatt tttgcaataa gtatgtgagt tctttatgac taatgttgag tccatggatt 180
 atacgcactc tcacccttcg accattgcta acctctctag tatcgtgcac ctttcgccgg 240
 taccatacac ccaccatata gcttcctcaa aacaatgacc atacttacct attatggcat 300
 ttccatagcc attccgagat atattgcaa tgcaac 336

<210> 7165
 <211> 453
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B4

<400> 7165

cggggtcgacc ggtcacggta actgcgacga gctcattgta tgccaatctc acattgcatg 60
gtacgatcta tgtaagataa aaacaaataa cagacacaat acattagtgg aaatagcata 120
aaataacaaa aagaatgtac tgtcagaagg ttcatataaa ttggtaccgc tgcaaaaaca 180
aaagaaggct ggaagtagat gccgaacagc gtggcagtag aaaggctggc ccggcaccgt 240
gagttgcagc atccacattg tgcttctctc attctacaca gaacgtgttg aactctaagt 300
tgaattgtac atagtacaat acacagatca tacatataat acatcatagt gataacctat 360
actggcaata cccaatcaat ctattttcta tcatctacgt aatacaaaa tgccaatgac 420
aatggcaatg cccgtctaata ctaaacctgg gaa 453

<210> 7166

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B9

<400> 7166

cgggccgacg ggacgatgat cttttctctac cagtctatcc ccctaggagc atgcgcgcag 60
tactttgttt tcaatggctt gtacatTTTT gcattaagta tatgagttct ttatgaccaa 120
tggtgagtcc atggattata cgcactctca cccttccatc attgctagcc tcttcggtat 180
cgtgcattgc cctttctcac cttgagagtt ggtgcaaact tcgccggtgc atccaaaccc 240
tgggatacga tagactctat cacacataag cctcattata tcttcctcaa aacagccacc 300
atacctacct atcatggcat ttccatagcc atttcgagga tat 343

<210> 7167

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C11

<400> 7167

cccggtcgga cgggaggttc aaccatgtcg tgtccaacgc cgtggacatg aagctcaggg 60
atgaccttga gaggtctcaag aagatcgga accatcgtgg tctgcgtcac tactgggggtg 120
tgcgtgtccg cggtcagcac accaagacta ccggcaggag aggaaagact gttggtgtct 180
ccaagaagcg ataagctgct tcacaaagat tcctcatagc tttgctacta ctgtgttggt 240
ccatttccag aatcttaagg gagtgttctt atttagatga ttaccttggc tgatgttttg 300
ccctagataa tgttttggtt ctgga 325

<210> 7168
<211> 98
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C12

<400> 7168

gacgggaaat tcacatgat gtagtcaca ttatcgatc gcagttcacg gatgtccatg 60
tgacgctcgt cagtctcaag caccatcgta gtctgctt 98

<210> 7169
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C2

<400> 7169

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ttcagagtca aaggtgcgaa ccaacgggga cgccggttgc ttgggaagtg atatcagagt 120
aggagtcagg ctgtgtggaa ccaactgtgct gccatgcct ttgacagtta attttgacta 180
tgctgtggag cctatagtgt gtttctgctg ctatattcct atttcataac tgttggtttt 240
ttggcaaata gtcatttct tgtattgtat tgtactgtat tgtattcggg tccattgtat 300
tagtatgttg atgtttcctg attttccttg ggttgatga caactaggtc agttactggt 360
gttactccac atagccacct tcttttttgg acatgtatgt tttgctgctg taat 414

<210> 7170
<211> 432
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C3

<400> 7170

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gggtcgacgg gagcagcggg caggaccacg ggcattggctg ggtagtgaca tgtgcgtaag   60
caatgtcgag cgtggcggat gacgccaaga tgagattctc catatcgta tttcctctct   120
ctctctctct accaatcctt cttgcttccc ctctgtctct ctcaatgcc ctatatgcag   180
gttctgacat gtgcttttgt ttgatcccg cttgattttt tctttggtaa gattcaatga   240
tggttgatgc aagcccatgc ttctcacaag ttggattgaa gtttgctggt cctctatttg   300
tactattgtt tccttaccaa gtactatcag tactggggta gaaaacactt acctattaca   360
tagttctttg ctgacagccg aatgtgatgt ttgaacgggt tcccctatat gcaggaagta   420
caatttgcac gt                                                    432

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<210> 7171

<211> 242

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C4

<400> 7171

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ggtcaccaca gtagtcgtga aatacatcag ctactactga tgtcatcggt gatgtgcatg   120
actaattagt gacaaataat gtggcggaag tctaataatga actcaatcga ctttgataac   180
ttagtaccct attcatttac acctgttcac actgttcaag ccataccac taactgttca   240
ct                                                    242

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<210> 7172

<211> 239

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C9

<400> 7172

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atcttcacca gggagtctcg ctccaccac tctggggatt cgaagaggaa tgtgaacccg 120
 actcactact aggagccacg gttttacaac aacgtgtcta tggaatgcc a ctcctatgaa 180
 cgtgatggga cttccttcga gccttaccog gtactttcca tgtgcatttg agtttatgt 239

<210> 7173
 <211> 321
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D10
 <400> 7173

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 tgttggtggt gacggagagc atcagtgtct tgcccgtctt ggtggtggca tgctcgctct 120
 tcctcttatt ggcataatgca tttccgttct tgtgcttgcc aaacgtagct tgattttggc 180
 gatgtcgatg ttctttctct tcaggttgct cttgtgtagc attgccatgt agagaagtgc 240
 actttgggtg atgggtcttg catgctgtc gacgtatatg ttggtgtgct tgatccagat 300
 atgggtgttat cggacatggt g 321

<210> 7174
 <211> 119
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D2
 <400> 7174

tcgacagggg agttcatggc cggctgattc catcctacta ctgtacctac tatacctgta 60
 gttcaccagc actgctgcta cttcagtagt catccttgaa cactattggt ctcaatatt 119

<210> 7175
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D3
 <400> 7175

cgggtcggcc gggatgggca cggtagcctg gatcgtcaac tcagagatct acccgctgcg 60

gcaccgcggt gtgtgcggtg gcgtggcggc gaccgcgaac tgggtgtcca acctcgtagt 120
 ggcgagtcg ttcctgacgc tgacgggggc catcggtccc gcgtggacgt tcctcatctt 180
 cggttgctg tccgtggcag cgctcgctt cgtgctcgtc tgcgtgccgg agaccaaggg 240
 actccccatc gaggacgtgg agaagatgct ggagaagcgg gaggtcaggc tcaagttctg 300
 ggcaccgcgt ggccgcggca gcaagaacga cggggtgtga gtgtcatccc taccttctcc 360
 atttagcgcg cgaacgagac aatttgtggc catccccgtg attggaattt cgattttag 420
 gc 422

<210> 7176
 <211> 327
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D4
 <400> 7176

cctgcattgc atcttccatg atgagaacga gtctgagcag gtcgaggagc aagatcttca 60
 tcggtggtg cacgcacat ggcccatcgg tatcgatata ggtgtgacag tccttggggc 120
 cacaatcgac atattggaga ggaagtgtga tgagcatttt gccatccatc aggagaaga 180
 ctcaaagctg ctcggtgca tgattgacga ctacccgaa gagtcgccgt cactagtgtc 240
 cattgagagc ctgatgcccc tcaaggaatg ggcagaggac ctctacgatt cagtcatgac 300
 acagccagcc tgcggcttca tcattgc 327

<210> 7177
 <211> 80
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D7
 <400> 7177

ttcgcggtc gacgggataa tctagagtga gtcgtttag attcttctga catgtttgat 60
 cattatgcga tccttgacac 80

<210> 7178
 <211> 336
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-018-Q1-E1-D9

<400> 7178

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cgctagctgc tccgtttgca tgttgccacc acgccggctc atcttcgcga acattgattg 120
agacgagagt cccttagtat gtgcttctcc gtctacacaa ggttgacact gcatcgctg 180
tggtcatcat cgctgacaac tacatcgctt cccagcattg tcgccgccac caccgctcat 240
ggtcttggtt aatgccaaac ggttcttctt cgcagccact agcgttgcca tgcgactaca 300
tgtggatgac tcatgtttaa tccgccacat cgagta 336

<210> 7179

<211> 417

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-018-Q1-E1-E1

<400> 7179

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tgatttactt ttgcttattg aatgcatgct aatttgagtc ctataagata ttgtgaaatg 120
tatatcttgt gttgctcaat atccaagtgg ccgttcatgt ttgcagggtta caccttcgag 180
tggcctatgt tttgccggag tgttgattca tttccgttcc ggcaaatttc aggcgctcga 240
tatgtcctat tttagcaaag gtcatgtcgg atttttccat gaattttggc atgacttggtg 300
tcagaatatg taggaaatat cgagtgcctt ggatttggtt gagtatcttg gtagttgtct 360
tcgattgatt ttcaattaat gttttaacta tgaacatang aaatgtctga cgacgag 417

<210> 7180

<211> 70

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-018-Q1-E1-E12

<400> 7180

agtcccgggc agacgggtaa gttatacatt cttacgaaac gcaaattgggc aataagtact 60

ctgccaaaca

70

<210> 7181

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-E2

<400> 7181

cgggctcgacg cggtacaatt caatagttac aatcattgtc gaatcccaag atgtatacaa 60
ggtctatagt acttcacaac atgctcaaac tcacataatc ccagtcaaatt gagaatctaa 120
atgcatttca tagttattac tttgtaggat gcagcacaaa caaccaagac tctacatcag 180
ccattataga agcaacattt tgacatatcc catttgtgtga atgaaacgtg cagagagagc 240
ttttgaagat ggagtatata gggcgggaaa gattgtatgt atgtggacga gagagtagga 300
ggcaaaccac acaagacaga aaaaagcgaa aaagaaggag aaagagatag gaaaaagtaa 360
ggtctgtgac aaagatggag acatgtaata tacatgattc ggtatacgtg gaaggagaag 420
agaccacatg 430

<210> 7182

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-E3

<400> 7182

taagtagact tatgcaataa gtatatgagt tctttatgac taatgtgagt ccatggatgt 60
acgcacagtc atccttccac tttgctagcc tctgttttac cgcgcaactt tcgccggtag 120
catgcacca ttacttacct tcctcaaac agccaccata cctacctatt atggcatttc 180
catagccatt ccgagatata ttgccatgca actttccaca attccgttta ttatgacatg 240
ctccatcatt atcatattgc tctttgcatg atcatgtaat tgacatagta tttgcggcaa 300
agccaccttc atattcattg catatcccgg tacactgccg gaggaattca tatagagtca 360
tatcttgttc tagctttgag ttgtaattct taagttgtaa atcaataaaa gtgtgatgat 420
cttcataatt ag 432

<210> 7183
 <211> 353
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-E4

 <400> 7183

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 tcccgtagca tgcacgtatg gtaaccgttg tgtgacaaat ttgaagcatg aggtgtttct 120
 ttgattgtct tcottatgag tggcagttgg ggacgagcga tggctcttttc ctaccaatct 180
 atccccctac gggcatgctg agtagtactt tgcttcgagg gctaataaac ttttgcaata 240
 agtaaatgag ttctttatga ctaatgtgag tccatggatt atacgcactt ttacctttcc 300
 atcattgcta gcctcgctcg gtacgtgcat tgccctttct cacctcgaga gtt 353

<210> 7184
 <211> 408
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-E5

 <400> 7184

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 cagtccgcgg acaatgatac agaaatcggc aatccaacct tgtctttaa cgtttgtcct 120
 tattttctct taaatacaca acattcaaca taatcataga aaatggcata attcatacat 180
 aaataacatg caaatatcca taagggcatc tccaacgtag gcctcaaac gaacaatata 240
 cttgcccgtg gactggtctg gattgattca tggacattgg tacgggagcc gtccatccga 300
 ccatgtcccc tagatgtctg cttctgtttc tttttttaag ttttcgagct caaaataata 360
 gcatagcaaa tctgogatca gagagnatat tcagatggga caattttt 408

<210> 7185
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-E6

<400> 7185

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tggtcaaaat gttgctttta taatggatca tgaagagtta tgggtgggtt gttgcatcct 120
acaaagtaat agctatgaga tgcattttaga ttttcatttg actgggatta tgcgagtttg 180
agcatattgt gaagtactat agacctcgta tacatatcgg aattcgacaa tgattctaag 240
tactgaattg tagaaacat tacattcaga atcagtagcc taatatattt agttctatcc 300
atcacatata cacacattct catcataagt ttgatttccc tcaatatctc gcacacacac 360
actct 365

<210> 7186

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F10

<400> 7186

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tccgatagcc ccccgctc caaccccgct ggcgccaatc ggaatgtagc tctccccag 120
tagactagtt taagagcaga agaatatagt taatggttcc tggatgagaa gtggaaatgc 180
tactggctgt ggaaggagga ggtttcttct catcgtcagc ttcaggatag agtcatggcc 240
ttgctctttt gctgcttgga cggaaagaag acgagaagcc tgtcaaggca tggagtcagt 300
accgagtagt cgatggggaa gct 323

<210> 7187

<211> 321

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F11

<400> 7187

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gggggcacaa ctaaggtggc tatcaagcgt ggcaaccctt tgtctgagca gggcatacat 120

gagttccaga ctgaaattga aatgctgtca aagctccgcc accgccatct tgtgtcgctg 180
 attggttact gcgaggacaa gaatgagatg atcctgggtct atgaccacat ggcccatgga 240
 actctgcgtg agcacctata caagaccag aatgcgcccgc ttagctggag gcagcgtttg 300
 gagatctgca ttggtgcagc c 321

<210> 7188
 <211> 89
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-F12
 <400> 7188

gagcatggca tatactttgt ttgtatagtt aatagactta tgcaatatgt atgtgagttc 60
 tttatgactg atgttgagta catggacta 89

<210> 7189
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-F2
 <400> 7189

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 acgacgacga atgacctccg taagatactg ctgactgcaa catgaacacg aaccgtcgga 120
 ggagccgtag tccagttgaa gtccacgatg accactctaa agggagtgcac gggttatggac 180
 ggaaagagaa catgagagat ctacagaatg atagtcatgc cagaccaggc agaggtcatg 240
 aacttgtcag gcattctgat atgcatgcct atggggcttc acgtgaatcc angatgcatg 300
 atgattatag gacgtaccat gatgtacgtg ctgatgatga aaggagccct ccttagaact 360
 tcccggccaa atcgggagtc aagggtgac acttactatg attcctcaaa ccgtgatggc 420
 acat 424

<210> 7190
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F3

<400> 7190

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acaaatggta gaggagggca gcgcaactggg cgcggtcaca attcggtcta ccgtcaggtt 120
gatgttgag gaggcaaaac tttaaaccgc aagatactga gacagtgatc aagaagcgac 180
agagtgagga gaatgattct tcagggtcca aagatgatag ccgtgactca aagaagaaac 240
aggcagagaa ggatgttgct aagactctgg cgagggtga gcatcagccc cgcggtacac 300
aatgaatttc ttttcatgga acaatcgagg gcttggaac ccggagacag ttcgagaact 360
tcatagcctt atgaagatgg aagggcccg cttggtcttc atgtgtgaaa c 411

<210> 7191

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F4

<400> 7191

ccggtcgacc ggggtgtcaa aataaagacg tgtgactgca cctgtcgaaa gtggaatatt 60
tctgggttgc catgcatgca tgcaattgca gtatttgagc gcactgggag gtatgcatat 120
gacttctgtg tggagtattt cagcagaaa cggtagcgct cgacctattc aatgtccata 180
aatccgatac ctgatgttac cttaacggac aattctcaga gtccagcgac attaccattc 240
tcaattcaaa ctgcgcgacg ggttggcagg ccgaaagaga aacagctgat ccgcccata 300
caattaacat ggcagtggc tgcagcagat gtaaaagtta tggtcacatc aaagcaactt 360
gcaaaattcc tatcagtggc gaagcccttc cgccttgcca ccagctgagc tcttcgatgt 420
acacagtaag gtgg 434

<210> 7192

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F5

<400> 7192

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ctcggagatg gtgtagttta caagcgacct ctagtcagtc ttctgogaca catgcgcaac 120
atbtcaccac accctacaag gaccatacga ctatactgtg ccagggtccc agtattttcca 180
gcatcatgtg atttttgttt gattttaacg gctggatccg gcatgccgcc aaggtagatt 240
cacctccctg ggggtggggca tgcccctcct tgggttgac taggcctact catagctcaa 300
atacatcata tatgatttga caaacgacct ctggacatca tttcaggtgg c 351

<210> 7193
<211> 181
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-F8
<400> 7193

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gatctgattt aacaactagg ctggggagtc tagtgcgga tcactctgagt tcgctcccgt 120
gggaaatcaa ctccggagtc acgtctcgga tgcactctgac tgattttaga tgggagagaa 180
t 181

<210> 7194
<211> 320
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-F9
<400> 7194

acgggacaac caaaagccta agcttgggga tgccccggaa ggcacgcct ctttcgtctt 60
cgtctatcgg taactttact tgaagctata tttttattca ccacatgaga tgtgtttttc 120
ttggagtgtg ttgtatgatt tgagtctttg atttttagtt taccacaatc atccttgctg 180
tacacacctt ttgggagaga cagcatgaa tcggaattta ttagaatact ctatgtgctt 240
cacttatatc ctttgagcta gacattagtg ctctagtgct tcacttatat ctttttagag 300
catggcagtg gttttatttt 320

<210> 7195
 <211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-G10

 <400> 7195

 gacgggaaca tcaacttttc tgaccgtttg gagctgcggc ctaaacccttc ctgtaatccc 60
 tggagcttcg tcagagcctt ttccttcccc acaggccaga gctcaattta ccttcgccag 120
 agctctaaga taaggagaat cagctcagga taaaagggtc cgcactcaat tgatccgggt 180
 caacacttcc tgtatctggt ttcggcttgg ttttgactcc ttgtaggggc tcatgacagt 240
 cctgtagggg atacaaaagc tttccgagca gtagcggcag ctgggcggga gagttgggta 300
 ttca 304

<210> 7196
 <211> 305
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-G12

 <400> 7196

 acgggacagg gatcgaatac ctgcagcacg agaatttcat ggaatgagca gtcagttagt 60
 caaggcaatg ccgagtctta gttttacaaa agtccaggaa gacaattgta cttcgtcaac 120
 atgtgccatt tgcttgaag actacagtgt tggtgaaaag ataagggtgc tgccttgctg 180
 tcacaagttc catgctgctt gcgtggacct gtggctcaga tcatggagga cattctgccc 240
 tgtatgcaag cgagatgcac atgctggaat gtcaaatttc cctccatcag agtctacgcc 300
 tttgc 305

<210> 7197
 <211> 78
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-G2

 <400> 7197

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cgtcagggcg agcagata

78

<210> 7198
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G4

<400> 7198

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catggtcaag cggctcgctg cattcttttc cagaggttgt atatgtagaa tatcagaagg 120
agcacacatg ggaagatagg tcaacaggat tgtggccgcc cttccacagt ccgatgctga 180
ttccttcttt taagactcgg gaatctgaaa taccaccgag aatgttttcc gtttctctgta 240
gttc 244

<210> 7199
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G5

<400> 7199

attccggggtc gacgggttcg cttataagcc atgaatcttc acaaattata gtcggtttct 60
aagaacactt tttttaata attcccgat tacaagtta ttatttttcc tggaaacttg 120
gtcacatatg atgacacaat gtgaaggttt tccaattttt tgaatttttt atgcccgttt 180
caaatgagg tcaaaacggc gggcttgacc gttcctagct agtgggtgaa tcttgaaaaa 240
aattggatgt ttctcttatt aaatagatac ttatgtacct agaatgatt tttggaaaaa 300
ataaatagca aactatgagg cagctacagt tcaaatttga cccgcttcct actgaatcgg 360
ccgaaatttg tcttttcacc agagatggac caaagctttt gacaccaac cattttgtta 420
aatgtgcaat aa 432

<210> 7200
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G6

<400> 7200

gacggggtcat actatattaa gtctttcaag aattgcatca ttgaccaatg ctatgcttgt 60
 caacttttaa taaatatttac tatttgtagt tttccgtatg tgatgtcatt acttaccata 120
 agattagcct atgatatttc tcattatttt ctttttagttg gttgacataa gaaagtatag 180
 aagcacaac tcatactaag cttattata taactctcac tcgattacat agatagatag 240
 atcacgagac taagacttga caatagatca gactaagcct ttattcaact tgtgatgatc 300
 atcattatttc attatt 316

<210> 7201

<211> 236

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G8

<400> 7201

cgggatacgc cagtggaaact tttggcaatc gtgggtggcct tgtccctgcg cggtcgccgc 60
 atttgacgtc cagtacatca tcgactagt atgtcacctg tgatctgtat gaataacttg 120
 tgtcaaataa tacgggggaa atgactagt aagtcaaacg acctgtaact tgttactcta 180
 atcttttgca catgtacatg ctaatcatgc cataaacacg aactgttcgc ttcaga 236

<210> 7202

<211> 282

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G9

<400> 7202

gacggggaga cgggtaccgg gaccctgaac tacaacaagc aacatagcgt ggacatgcac 60
 ctgctgtccc ctcaggtaga gaatcctgta tatggctggg aagacagaac cactgctgtt 120
 agtactacat agataggcct gtaatttggt aactaattc tttttcctcc tctccctgat 180
 gccaacggca aagccttggt cattattacc aatacgaact acagactgct tgtagcacta 240
 gataacactt gtgtattcga tatttcgatc ccttgagttt tg 282

agcagcgatt gaagaagcag caggaccggt cgattcaaat ccaaagtta ctgttgctag 180
aatcgtttgt tgactaagtt gacaagccct gcgtacgcgt caacttagta ggccacag 240
tcagcctccc aaccagtgcg cccagatgt cagtgggagg aatcattttt ttgcgtaata 300
aggaggcagt tgattgcgtg cggccaggcc agtggaggga gtaggggtggg ccggggaagc 360
ctacgcgaca tcacagcggg ccacatgagg agggagcagg cagtctcgcc ggtgctagtt 420
taggcggctg gagc 434

<210> 7445
<211> 413
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-F1

<400> 7445
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ttgcgaactt cgagtacata gatgaggcta aagcttttagc agcaaaaaag aaggcacgca 120
aaaaaacgg aactgaaacc gcatccaata aagcaaacta ttgggaagaa ttattaaaga 180
cagatgcgtt gagcaagaag tagaagaaat tgctatggga aaangaaaaa gaagccgcaa 240
gcagatggct gctgctgatg aagatgacat tactggcctg cacgagttaa gttctgaaga 300
cgaagattac tcctatgatg atgatgtgtc ggataatgac acgagtttac cagcaaattg 360
ttctgggagg aangctcagt attctaagaa aaactcacgt aatgtagatt cac 413

<210> 7446
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F10

<400> 7446
ttcgcgggtc cacgggggaca gccaaatcaa ctacgaggag ttcgtcaagg tgatgatggc 60
caagtgatcc agccgatgtt catgtccggt ggtattatta tttttaccgg ggaggaggaa 120
attgtgcatt gcatattagt agtaaggaat gcggctctcg tttccttgtc tttgccccga 180
accagaagaa gcgtactagt agacgtagtt gctgaagagc actcatggaa tcctcctccc 240

<210> 7203
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H1

 <400> 7203

cgggtcgacc gggcacacac agaatatatc atctcttatg actctgatga tctatatcca 60
 ggaagtaatt caggtgttgg aaagctgaga tcggacttcc tggggacaaa gtctgcatg 120
 tacgacaatc agaaaccata cgacggcgcc aagtccttga agagccgatc aagtcgccgc 180
 tttgcgagca aacaaatcag cccacacggt tcaggcgata atcttgaagt tggacaggtg 240
 tcatacaggt tcaacttcct caaatcaaga gggccgagaa gaatgcactg cagtatccag 300
 tgcccogtag gtcagggcac cgcattccgat ccatccaagg agaagccacc gagcaactcc 360
 agtccttgt ctctaaaaaa caaagcgct cggtggcacg aacacctgca gtgctgggtg 420
 cttgaatttt cac 433

<210> 7204
 <211> 303
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H10

 <400> 7204

acggggactc catctttgac atgggcttcc caccttacac gggaggggtc atgttatggg 60
 gatattccat cggcgcaaaa tacatccacg gcaagttgca tgagtgtgcg aagcggtagc 120
 gcagcttctt cgagccttgc tctacctcg ccgaaagagc atcaaagggg attcctctga 180
 gtgcattagc atcaactcaa gtcaagtcgc ggctatatgt gattgtaggc ctggtacttc 240
 tgtcagctga atgaaattat gccaccgagt tatactgcgc gatgaagggt gtgaactggt 300
 gag 303

<210> 7205
 <211> 265
 <212> DNA
 <213> Triticum aestivum

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<223> Clone ID: LIB104-018-Q1-E1-H11

<400> 7205

acggggatga caacggtgag agagagatag agcacggcag tgggaaacta gctgtgtagg 60
gctcagccgt gggaagctat ctatgtaggg cacggtggca ttgagatccc attcggcttc 120
gtgctccatc tctgcctcac gcttccgcta ccattcgtag atgcagatcc cggcgcgtgt 180
gcacatgtcc gtcgtcgtcg gtctgctctg cccggcgggc gttgatagga gcgttactca 240
tccacggatg agccgtattc atccg 265

<210> 7206

<211> 217

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H2

<400> 7206

tggaaaatag aataccagaa aaggtcagtg gtgttttgga gggcgccctcg tctgtatgta 60
ttccatctgt gtaagttaat tcatttgggt gattgggttcg gctgtaggcg gtatatctca 120
atacagtggg ggatttgtaa tgtttctggt tttgtgttcc ttgtgagatg aaataataac 180
ttaacttggt tataacatgc tcctcaattt tcttctt 217

<210> 7207

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H3

<400> 7207

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cttccagatg tgctcccttt aaagcagtat ctgttgcctt cccaatattg ttgactagaa 120
agtaagtagg gcaacaagta tgagaattta acttggctgt gttttcaaaa gaagctggcg 180
cacctgaaag ctgattttgc atgtttttcc ccatgcatgt atgtaagctt ccaataagga 240
accaacccat gatcttattg gtgatagcat tatcatcact aggtaagggt tatgatgtgg 300
tgcttatttg ctttgtcaga atgaatccat tgtgaaagag atttgcaaaa caaaaa 356

<210> 7208
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H4

 <400> 7208

gcccttagtg gaggggtccg aaatcaaccc tatctcttgt ttccccacac atacggactc 60
 taaaaatagc ctatacttat gtatttcgaa attacatggg cctggcccaa taataaggcg 120
 acgcagcacc taaaatagcc tcagaacgaa atttatgaag tggcatgatg aggacatgac 180
 taccttggat atgaccaaaa atattgcata tatgcatatt tgtcagggtga tttctagtgc 240
 aaactattca ataatctatt tatgttatcc agaacaaaaa tacttcacac acttttgtgt 300
 tttgtctaata tgcagggtga tgggacatct gtacaatcca catatgaaga taaggaacca 360
 cgaaatttta atttccgtcc aaaaa 385

<210> 7209
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H5

 <400> 7209

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 gctcgtcct tgatcatatc gtattgccct gaaaagcaag attgttctcg agcttaataa 120
 cagatcggtg gtttgtgatt ttccggatat cttctctgga agtgttacta tgttgtcagc 180
 tgaccgctat gttgagttcg tgatcaagtt ggatttcctc caaaccaccc ttctccgtct 240
 gtctgcttg gtttgtcgt cgtcttagag ggtgtgcgtg tgttcatgtt ggagtgtgat 300
 gtctgggcgc gtgcgtgtgt gtatgtatag gtctcggtgg tgtgggaggt gtccagtacg 360
 tgcgccagag tgccattcct tgtg 384

<210> 7210
 <211> 247
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H6

<400> 7210

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tatgtatttc gaagttacat tggctctggac cataagtaag gcaacgcagc atgtaagtta 120
ccgtgagaat gatctttatg tgagtggcat gttgatgata tgactatctt ggatatgacc 180
aataatattg catttctgcc tatttgtcag gtgatttcta ttgcgcacga ttcgatactc 240
tatttat 247

<210> 7211

<211> 322

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H7

<400> 7211

ttcccgtcga cgggtgacat cactacagct attgacaccc atgttgtacc cactgaagaa 60
gtatccaatg atgactcatt atctacacgc attctcaatg aaactaccct tcaactatac 120
acatttattg caacatcaac tcatataatc atctacatgt acataaaaac gatcaaaaca 180
caattcataa tgataataat gagaatgatt agatctacat taaatattgc taatgtcat 240
atatggacat tgccacgatc agaaaagata ataataccga tagcaaacat aatgataaaa 300
atacctccaa cgagactgga cc 322

<210> 7212

<211> 348

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H8

<400> 7212

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agggatggct aggcctgcga tgggagtacg gtggggcggt gaggcctgcg cggcagcaga 180
gccggccgtg gggaggaggg agcaggcagt cctgccggcg cttgtttgag cggttggagc 240

aggaagagca gagatagaag aagcatgacg gccgttgat ggacatccaa cagtcagtgc 300
 ttgtgcctca acctttttttt aggaaagcct caaatccatg gaaaacag 348

<210> 7213
 <211> 233
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-H9
 <400> 7213

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 gccatcgaat ttcggttttc ttatgcaatg tgccaatggt gactatcccg ttcaactggt 120
 cggcggtgac ctgggaccgt agtcaattg caagcggcac tctgtttggt gattttgaag 180
 taaatgctgg tacaacagat gccggtttat taatcattca gtaggggtat aca 233

<210> 7214
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-A4
 <400> 7214

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 cgaccattg tacacaacaa cgtctaggca tctccacgac acgtgcgacc gcctgtgttt 180
 tgcttttagac ccgatggcac acctgataac aaattctttc caccacgaca agcaatcata 240
 cttggttttc tccgatcggt ttatgatgag acacaagtac atgggcttaa gcacctaga 300
 ttgattcttc tcggtgtagt tgtgtacgta tacaaaacct aatcacatat gtatacaaaa 360
 caccctgatc ctttagatta aacatttctt ttggctacac atcacgtcca catgagacta 420
 tatttaatgg caataaggtg ttggctct 448

<210> 7215
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A7

<400> 7215

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ggatgaaatg atgataccat gccaaactttc aaccttttca gagttcatTT tgaaatgctt 120
tccaatttaa gggcctaaaa ccccaaatta atataaaatg cacggaaaat aacaaatgaa 180
gtcacaaagt attgaaaatt gatgatgtgg ctttgaatgg tgcattttga acacacaaaa 240
agtcacgagt tcaaataagt tttaaaaaat caaatcccta tgtaacagac gagtttccgt 300
atgaaatcct gatactttga aagagattgt ccgttttgta cacgaagtgc atccaccttt 360
tgccggggagc ctctcaactt tcttgacat gct 393

<210> 7216

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A9

<400> 7216

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tgcccgtgct ctctacggcg agctccggcg tcggtgagcg ccagggggaa gttaaggggg 120
tggagacgac gatggtggcg aagcatggca tgcttgggcc ggttgggtaa ccagcacgcg 180
ctcaacagag cactacgagg cacacagagc gcgtgttttg catgccagca caccgggacg 240
aacgtggtca ccgctgaac cgtgacatca ggccacccta agcgctaacc tttatgtctg 300
gcgtgtagtc cttagtagtt tgaagtgtta ccatggtttg gcttggatcc aggtgcagtt 360
gaaatagatt tgtactgctg gcaagtttct gggc 394

<210> 7217

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-B1

<400> 7217

gggtcgacgg gatatggtga tattagagtc gtgctagttg agtaattgtg aaattgagaa 60

atacttttgt tgaggtttgc aagtcccgtg gcatgcacgt atggtgaacc gttatgtaac 120
gaagtcggag catcaggtgt ttattgattg tcttccttat gagtggcggt cggggacgag 180
cgatggtctt ttcctaccaa tctatcccc taggagcatg cgtgtagtac tttgttttga 240
tgactaatag atttttgcaa taagtatgtg agttctttat gactaatgtt gagtccatgg 300
attatacgca ctctcacct tccatcattg ctagcctttt cggtagcgtg cattagcctt 360
tctcacctcg agagttggtg caaacttcgc cggtagcatcc aaaccctga tatgata 417

<210> 7218
<211> 366
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-B5
<400> 7218

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cgcgccaccg attctcgcta taccaccacc atcgggggtca agccatcaga aaaggattga 120
agggcatgag attgggtcgg tcaggtgtcc agcgtgtagc acattgtgtg gtttcctata 180
tgatgatgag attggttgat tgattctgcc tgggttgggt ggttggtggtg tgttggtatac 240
tgtcctctgg ttatacaggt ctgctcaaag tgtagcgtga ctgagtcgag cggtaagaat 300
tgaattgca tgggaggaac tctgtttttg tcgagtcgga aaaggcgggtg cgggtgctgcg 360
ccttgt 366

<210> 7219
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-B7
<400> 7219

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cgcgctggag ctgtcaggcc cctgcacctc ctccatcatc atccggctgg acggcaacct 120
cctcggcacc ggcgacctca ccgcctacaa gaagaactgg atcgaggtga tgcgcgtgga 180
caacttcacc atcaacggcc acggcaccat cgacggccag ggccccctcg tgtgggagaa 240

gaaccagtgc agcaagcact acgactgcaa gatcctcccc aacagcctgg tgctggacta 300
 cgtgaacaac gcgacgatcc ggggcatcac gctcaagaac gccaaagtct tccacctcaa 360
 cctcttcaag tgcaagacgg tgctggtgga gaacgtggag atcacggcgc cggggaacag 420
 cccaaca 428

<210> 7220
 <211> 363
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-C10
 <400> 7220

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 catcgcgac caactggagg ttatcatcaa caggcggcat attaacatga tgcagcacat 120
 gctctagctc aagtattcgc accttatctc gatctccgcc ttcaaaaacc cctgcgcca 180
 ttccatcata ctccaggcac ctgtctctct gacacagtct gcactcgatg atgattatct 240
 acgtagatta aggcacgac gtatacccaa ggatcgtatt cgacgactac atgttcctgt 300
 acatgcgcca aatctacgag gccaaagtta cactgttcac agccaagtac gtaaagtccg 360
 cat 363

<210> 7221
 <211> 293
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-C11
 <400> 7221

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 aactggaagt tatcatcaac aggctgtata tataacatgt tgcattacat gctctagctc 120
 aagtattcca accttatctc gatctccgca ttcaaaaaac cctgcgacaa ttccatcata 180
 ttccaggcac cttgtgctcc tgagcacttc tgactccag atatgattta cgtatattaa 240
 ggcatcgacg tataaccaag gatcgtattc gccgaatata tgattcctgt aca 293

<210> 7222
 <211> 202
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-C2

<400> 7222

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 ggcatatttt catcagggaa tcatgcttcc accagtctgg ggattccaac aggaaactga 120
 acccgacgca ctaccgggag ccgaggttct acaccaaagt gtttaaagaa tgccactccc 180
 atgaccaaca ggggaattcc tt 202

<210> 7223
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-D3

<400> 7223

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 ggagctaccg aaacgtgctg tgattcttgg tggcggatat attgctgttg aatttgcttc 120
 tatctggaag ggggttgggtg ctgaagtaga tctattttat aggaaagaac ttcctctaag 180
 gggttttgat gatgagatga gaacagttgt tgcaagtaac cttgaacgaa ggggaatccg 240
 attgcatcca gggacaaatt tgaccgagtt gagtaaaaca gccgatggca ttaaagttgt 300
 gacagataag ggggatgagc tcattgcaga tgttgttctt tttgctacag gtcgtgcgcc 360
 gaactccaat aggctgaacc tggaagctgt tggtgttgac gttgatcaaa tangagccat 420
 caaggttgat gaat 434

<210> 7224
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-E3

<400> 7224

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 tgagtccatg gattatacgc accctttcac ctttccatca ttgctagcct ttcttgtgcc 180
 gcacaacttt cgccggtacc atacacctac catatacctt cctcaaaaca tccatcatac 240
 ctacctatta tggcatttcc atagccattc cgagatatat tttcatgcaa ctttccacca 300
 tgtcgttcat atgacacgca ttacttttgt cacattgctc tttgcatgat catgtagttg 360
 acattgtatt tgtggcaagg ccaccttcat aattttcata catgtcgctc ttgattcatt 420
 gcatatcccg gtaca 435

<210> 7225
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E4
 <400> 7225

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 attcttcacc actgtcgtct ctcttattgc gttttagagag cacactttcc acgttcaagc 180
 tttccattac catctacacc aataaatgta acaccaatag tacttgaaca gttaatccat 240
 gttcaatacg acttctaaat taactgtgca catctttggg gtatactgag aacctccttg 300
 tgaagcagca ttatgta 317

<210> 7226
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E5
 <400> 7226

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 gcttccttcc tcggatcgga gggggagagc gaccggccga ccaggaggaa gcggcggcag 120
 gatgagtctc ttcggcctcg gacggaatca gaagacgttc cgtcccaaga aaagtgtcc 180

atcaggcagc aagggggcac agctccgaaa gcacatagat gcaaccctcg gtagtgggaaa 240
 ccttagggaa gctgtgagggc tgctcctgg agaggatatac aatgaatggc ttgctgttaa 300
 cactgtggac ttctttaatc aagttaacct gctgtatggc acactcacag agttctgcac 360
 atccgaaagc tgcccaacaa tgactgcagg cctaaagtat gagtaccgat gggctgatgg 420
 tgtacagata aagaagcc 438

<210> 7227
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E7
 <400> 7227

attcgcgggc cgacgggcta tggaatatgg aatcatgagt ggcattgagcc tagcattggg 60
 gatgccaag gcacccaag gtaatatcca aggataacca acagactact attggggatg 120
 ccccgatgg catcacctct ttctcttca ttcacggta agtttacttg gagctacatt 180
 tttattcacc acatgatatac tggtttgctt ggaccgtcat tttattttgt tttatgcttg 240
 ctgtttgaat aaaataccat gatcttaaat tcttatatgt tagagagtct tcacatactt 300
 acataattat tcgactactc attgagcttc acttatagtt ttctgagtag tttgtcgttt 360
 gctctagtgc ctcaattata tcttcttaca gaatggccgt ggttttaatt catataaatc 420
 gatgaactct catgcttc 438

<210> 7228
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E9
 <400> 7228

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 atttttgccc tggactatta attttgcttg ctctccctt tgtctggttc caaactgtct 120
 gtggaattga cttgattagt cagctttgaa atgggtatacg tggcacgtgc acagcacaat 180
 gcaattttcc aaactaaata taatatttat gtctgatgg aatgtcaagt ctgctctatt 240

gtatgatatg aacctaggac tgtatcttat tgggaattaa gagtcacgga gccaaaattg 300
tactctgttt cgagc 315

<210> 7229
<211> 407
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-019-Q1-E1-F2

<400> 7229

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ttttacttat tccgtgggtc ggaagcgggg ttcacatcat cctgcgtacc gcataacgag 120
aatgaacccc acgccctcac catcacaaca acctgatgtt atttagccct tttccttctt 180
ccagggcctg cagctcttct cattccggca gcctgaaact tgagtgaata aaatgtcttg 240
tatcgtctaa ccgttttgct acggccatct gagatggttg atacatactt acatcacggg 300
tcaatgatg agcttatgat gtcttgatca ggacatgttt tctgtgtgtc attccatttg 360
tgataaatca tttcaaatga atgttgatg caccatggan caagctc 407

<210> 7230
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F3

<400> 7230

acggtcaaat attccgggtc gacggggcgt caaagtttac cggagatcgg ggtgatatag 60
attgttaggt ccgcagtttg ccactttgta atgttcctcc ctacatagcg ctgtcatgcc 120
atgtgtcatg tgtgccttgc tctcagcagg gaagttgagt tgttgatgt tgtgtagcag 180
aacgatgctt tctgcctgtg aatgtaaaac ataagattgc ctaaaaaaaaa tcaatcaaaa 240
agaaaacaaa a 251

<210> 7231
<211> 436
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F6

<400> 7231

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cagttttagtag aggctacagc catggtgggt aagggtgact tgcattctgac aggacaactt  120
ggcgatgtaa ttaaggaatc agcacagtta gctctgacat ggggtgagagc aagatctgct  180
gaccttaatc tgtcaccac ttctgatatt aacatattgg agagccgtga tatccacata  240
cattttcctg ctggtgctgt gccgaatgat ggtccttctg caggagtgc actggttaaca  300
tcactgggtgt cattgttttag taaccgaaaa gtcagagcag aactgcaat gaccggagag  360
atgactctta agggcctact gttgccagtt ggtggagtta acgataacgt gcttgctgca  420
catcgatatg gcatca                                         436
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<210> 7232

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F8

<400> 7232

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aagtagcagt ttgctcgagg tacattctca cagtagcaat ttgaaccttg tcatgaatgt  120
cacaaagtca gcgtcgagtt gcgtcactgg gacaatatca actactcaca tttgggaatc  180
atagacttgg aactaatgca gatcataaat tacgatgtgt cgcgcatagc ttgtgaatgt  240
ccatcagctt gaatatgatg ctgtggaagg cctaccaagt gtgcctgaca tcaaactgac  300
tattggtgtg attaacatct atcccggtc atgtaccagc agtttataac atttagttac  360
catatgtttt t                                           371
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<210> 7233

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-G11

<400> 7233

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 acataggtgg aaactgacac agcactgaat gttgcctcag gaaattttca attgcgttga 120
 aacagacagg acagtttctca tttttcacga ccacaaaatg aagttttatg taaatgacct 180
 atcaaataca tggttgaaca tagcatcaga tcattttcac aactatgaa gacatatcta 240
 acgcatatat gacaacatgg ttgggtgtta tcgaatatga tccaacgcta gatgtaaaca 300
 gaagattgag tcagttcatt aggaatagag acacatttta actacatccg cctcac 356

<210> 7234

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-G2

<400> 7234

tcccggtcg acatcgactt cgacttcttc gtcggtgctc gaagctcgcc gccaacgatt 60
 caccgcctcc tgcagctact aaactccacc ggcatttctt ggcctcacg gtgagctccc 120
 ggtcggaac cctctctct agacttggtt cgttgtttcc tgctgatact accatcgcca 180
 ccgaagctct gtcgtcgctc tcgagctcgt caccgtcagt atcgtgtact ctagggccag 240
 gcaagcacgt caacgtgctc gtggcgctcc tgtggtaccg cctgagccgt ttgtttgatc 300
 attctccccg cgtatccccg tatccgttga gctcttgctc cggccgccgc ttgccgtcat 360
 tgcttcggcc aactccggcc atctctgctc gtgtcgttga ttctgttcaa cgcgcgacgt 420
 cccgcccgat 430

<210> 7235

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-G3

<400> 7235

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 tcatgagctc cgtaggtata agaaaacaaa ccaccacttt aagggtacttt aatgaaatca 120

tgggcagaac ctggagagag ggaagatcaa ggctgccatc gacaagattg tgcacgacaa 300
 agggattaga gagaggatgg atgccttcaa attaactgca gatgaagcag ttaactccca 360
 aactgagggtg aaagcttttg ttgatctcat aaactcgttt taattaattc agaaccttcc 420
 acttcagata cct 433

<210> 7238
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-H4
 <400> 7238

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 gacgtccggt tagggaagtc aaaacccaca ggcaacattg gaacgggtatt gcattccttc 120
 atcatcaagt gccctggctc caaacagcaa acgagagaga aagtgatcgc tgcaatgtct 180
 cgcgccatga gctcagtgtg nagtcgggtg angggagtcg gtgcagtaga ggttggttac 240
 tctgctggtg gcatccaagt agcaagcagc cctgaaacc ttccattctg ttgatagaag 300
 ttgtaggctg agacagcaag ctgagatttc tgacttagca atgcaagaaa agcacaagct 360
 aaaccgccat tgttgtaacg gtaggttctt gtgctccttg tagttttgat gtttttttgg 420
 gaagaaatac atgc 434

<210> 7239
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-H6
 <400> 7239

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 ttttttttgg gagagcagtt tccgtgattc tgcttggtgc aaaaaataga aatgaatgta 120
 tttaaaacta aaatacgtct agatacatct atttctccga tggctaacac tccacttcat 180
 gatacatgga ctogtgtttt taagaaaata aaaaagagta gcaaataatc cggcgtgacg 240

agacggaggg cgagcgtatg gccgacaact tggctgctct tttgaggaag ggacgatggt 300
gtccagacag cggttgcttg ggagcttgca aggctcgtgt ttggctccta cgccgagttc 360
agtgccctgc aggttcaagg taactctgac atccttgac g 401

<210> 7240
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H8

<400> 7240

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catcagggaa tcgtgcttcc accagtctgg ggattccaag aggaaagtga acccgacgca 120
ctaccgggag ccgaggttct acaccaaggt gtttaaggaa tgccactcct atgaccaaga 180
ggggaattcc tttgagcttt ctctggtaac ttccaagtgc attggagctt atgtgaaaag 240
caagaagaac cagaaccaga tatgttggct gtgggagaag gtcaagtgca cagaagacaa 300
aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatct tgcgttatga 360

<210> 7241
<211> 462
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-A4

<400> 7241

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aattacaagt gcgtactatc gagggggccgt cggtgcgctt gtcgtgtacg atgtgacacg 120
ccatgtgacc tttgagaacg tggagaggtg gttgaaggag ctccgggatc acacagatgc 180
aaacattgtc atcatgcttg tcggcaacaa agctgatctc cgccatctta gggctgtatc 240
agtggaggat gccaaggcct tcgctgagag ggaaagcacc ttcttttatgg aaacatctgc 300
gctggaggcc atgaatgttg agaacgcctt cactgagggt ctgactcaga tctaccgtgt 360
ggtcagcaag aaggccctcg acataggcga tgaccctgct gctccanega gagggcanna 420
catcaatgtt ggtggcaagg atgatgtctc tgctgtgaaa aa 462

<210> 7242
 <211> 286
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-A5

 <400> 7242

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 ttgtattagc atgtttggct ttcgcatgta ttctgatcga atgtggtctt ctcccgacgg 120
 ctgcttcacg tgtgctcacc aacgaagttc aatgctagca tgcgtgtga agtggctcgc 180
 acagcgacaa tccgatggty ctgcataaga ctgggcaaga cctatcatat gctgaagtct 240
 ttcagtactg tcacagattg ggtcagggtga atcagccggg cgctct 286

<210> 7243
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-A7

 <400> 7243

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 ggaggattcg gggggtttca gcttggtctg aaactgcaag cttggatatc agccgactta 120
 caccgggatg gtagcaggcc agcaagcagc acttggtactg aacttggttt tgcattgtcta 180
 gatggggaag tgattcttct ctgtgattct tgtatggcca ttgtgtataa tagaaacgtt 240
 tgcattgcaac cacgggtctg gctgcatggg cttaaagagct aaacattgaac aaagaacaca 300
 tctggagtat cctgtagcac acatggggaa aacacgtctc tatagtgaac ttgcgggtata 360
 catgtctgtc 370

<210> 7244
 <211> 319
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-B1

 <400> 7244

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 caatagaggc gtggaatgca ctcaaagaga tgaagattga gttaaactcg gtcatgaatg 120
 ctctggcaca tgtgctgaag cgccaatttc acaagttgca gatggagaaa actgaatcgg 180
 tgaacgacta tgccatgcag atggataaag ctcgacgaga gcgacattgt ggagaagttt 240
 ttcagttcgg tcaactgataa attcacgtac atcatcggta cgctcgaaca actttacgat 300
 atccacgaca tgaccataa 319

<210> 7245
 <211> 253
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-B12
 <400> 7245

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 aggagaagaa gaagaaggag aagaagaagg aggagaagaa gaaggagaag aagaaggaga 120
 agaagaagaa ggagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga 180
 agaagaagaa gaagaagaag atgaagaaga agaagaagaa gaagaagaag aagatgaaga 240
 agacgaagaa gaa 253

<210> 7246
 <211> 460
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-B7
 <400> 7246

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 cacagaatgc cgagtgacat caccaccttc ttgaaccagt acctcgggca ctgatgcagt 120
 tcgagtggcc ttgccaaccg gcgcctttct attattcctc gccctcagtg gcacctcgtc 180
 ttcacatca gggagatcaa tgacatgatg aggagctgca gcatgaatcc agagttagaa 240
 acgaaaatcc aatcgaccaa aaggaaaact acaagagagc gtaccagggt tggaggtggc 300
 agcatcttcc atttcttggt cgtctttctt ggcgagggtc tcggaggtag cagcactgca 360

gatttcagaa accagtcggt aagtcgatga gtcaaccaag agtttgtccg tgctaaataa 420
gaaaacacaa gctccgttgt tacccgga tagtggaat 460

<210> 7247
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C1

<400> 7247

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caccgggcac caccgaata aaccgggtcca ggtataaagg cgtgaatgcc agggacgaac 120
cttcggatgg ctggaacgcc acgcccagct ccacttggtc atcgcgacc attccagca 180
cctgttcatt gatcaggtca tgcaccgtca cattcacctg cgggtaacgt ggcggaata 240
tcttaagaat cgggtggcagc aggttgcccg caaacgaagg catcgccgcc acggtgacgc 300
ggccacgctg caggggtgaaa cgctgacgca gttcgtcttc ggcattgtcn cagtcggcaa 360
tcaaccggcg cgccaacggc agcagcgatt caccttcagg cgtcagtgcg acgttgcggg 420
tattgcggct gaacaggcgg ccgct 445

<210> 7248
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-C2

<400> 7248

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aattttatat ggtctgatgc tcagacacca atggaattgt tcaaatctta ccagtggtg 120
atcattgtag gctocatttg ttatcaaaat acgctaatta gtgcgtgctc atacacaaa 180
ggaacagttc aagtcttgct gctgctcag tcaatcgtga gttacagtaa aagctataaa 240
tgtctagctt tgagctcagt ttagttttga aatgcataat tagcttttac attacatgtt 300
tgaaagggtt ctcttctaatt ttatacttaa ataaaattgg agaaattctc atctcgctaa 360

aaa

363

<210> 7249
<211> 467
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C3

<400> 7249

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tcgtgaatga ggagcggagt ccaactccctt gggaataacc cacctagcat ggaagataca 120
aatagaccta gttgaaacat gagctgctcg agtatataaaa acagcatttc atttgaaggt 180
ttggagtttg gcacatacaa atttaattgg gacggaaggt aaataccgca tataggaagg 240
tatggaggac tcatatggaa caactttgag gtttatggag tttggatgca caagcagtat 300
tcctgcttag tatagggtgaa ggctagcaaaa agactgggaa gcgaccaact gagagagcga 360
caatgctacg tcttgagctt gtgttggttt tccccgaaga ggagaggatg atgtagcaca 420
gtagcgtagg tatttcgctc agtttttgag aaccaaggta tcaatcc 467

<210> 7250
<211> 460
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C4

<400> 7250

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cgaacctggc ggagaagctg atcacgaagc ggctgtacgc ggaaggggcg gagggaaga 120
actgggtgtg gcaactcgag ggggacctga tgctcaacga ctccgtcttc gccgacagcg 180
ggggcccaaa ccagaggaag ttcgagaagg atgacctcat cccgccaag ccgggatcgt 240
acgtcaccag gctcacgcac ttcgccggt gcttgccgtg caagcccgcc aagccctgct 300
aaaccttggg gggcccgccg gccggccgga cccgatccct tccgaatctt caattctata 360
gctttgttca agtcttttac tcaaagattc gtgtatgtat tactatgaca tttgagtagt 420

ctacgggggtt cagatcatag ggccctgtag gttgttcctg 460

<210> 7251
<211> 459
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C7

<400> 7251

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atctgttcgt tcagcaacag tggacacttt ggctgtctga attgcgacca gaaaagcttc 120
tctgttgcatt gcccttcttt cgcttggaag aaccgcgcct catcagagac actcttcggc 180
aagtccaaga atgcatctgg agaactccac ttttgattaa gcggggcata ctccggatca 240
acgaatttag tctgtaataa gaaaggctta ccggccgcta tctcccagc ttgcgggac 300
ttctctcgag ccgccctaga cacggatcat gcttctctcg cctcttgtaa ggccttgctg 360
agatcgacct ttttggcttt gttatccttc tcgaggaatt cgcaccggac agtggtcttc 420
ttttgctcgc gcgccatggt agacattctc tctctgcac 459

<210> 7252
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-C8

<400> 7252

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ttatggcgat ggcatccaca catggccatc accaccttgc tgcgggtgac gcaacttacc 120
gaacaacaat tcttttctcc atctctctg acgcagctcg acgacgatgg agacacgcac 180
cagcagctag cagcatcgcg ccgccacctc cgtccacctt gtgcgggga cctccacctc 240
acatggattt cgcggtgccc ccgcgctcgc cttggatcga caaggctctg ataccaattg 300
ttggcgccgc ctctctcgt tgcagcgccg ctcttcttc tacctcaagc tgccttacac 360
aactctcttg aggtttctct caagaacaca agaatacaca cacacacaag aaactctaca 420
cacacgcacc aaggaagaag cccaactacc tt 452

<210> 7253
 <211> 489
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-D1

 <400> 7253

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 ccgacgacac cgatgacatg gacgaggagg tcagtgaagc ctggcccgcc ctgcaaacia 180
 ccaccacacc aacgaggaag tggatgacaa cctccacctc cgacatctac gtggtagata 240
 ctccccacga caacagtggc agaggcgata atgataacia tggccggggg aggcaacggg 300
 agcaataacg gtgggaatga taacatggca ccaatgccaa caacccaac aacaaccttg 360
 gtcccgatca caaggacacc ttaaacaagt cacttggcag tccaaccac gatgcattaa 420
 agctaaggct gctcgacacc gccacaaga taaccgatga aaagcaacga cttcgtgaca 480
 aagagaaat 489

<210> 7254
 <211> 311
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-D3

 <400> 7254

tccacggggt ggccaagaac ttcgattgcc atggccagggt tggcgaggaa gcttgtgcgt 60
 tgaagagtgg aaggagctgt taaagctttt tctttcggca gttggcttat tatgctctgg 120
 ttccttgcaa aaaaaaagaa aaggcttatt atgctctgga gctgtcttgc atttttcctt 180
 cttgcaatgc tgcgttagcg gtatgtaatc ctgtaacctat attttgagta ctctctgggt 240
 tttcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacag 300
 acgaacaaaa a 311

<210> 7255

<211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-D4

 <400> 7255

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 cattgagctt tcctgaaata tttatcttga aatagcatta gctcaataag ctatatgttg 120
 ttaggaatta ccaaaccac ctagggatag ttgcactttc aatactctat gtgcttcact 180
 tatactttt gagcttgata gtttttgctc tagtgcttca cttatatctt ttagagcgcg 240
 gcggtggctt aattttgaag aaatttctag tctctcatgc ttcacttata ttattttgag 300
 agtcttttag aacagcatgg tatttgctat gggtataaaa ttggtcctag aatggtaggc 360
 atccaaattg ggtaaaataa aaact 385

<210> 7256
 <211> 478
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-D8

 <400> 7256

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 aatattgtga caactatttg atccaccgga agtttcatga ggttttactc tgtgtgatta 120
 agatggcagc agattacctc aaacctaagg acccaaactt tagtgtgcac ccaaagattc 180
 gaaaggatag aagggttat ccccatctta aggattgcag tggtgacta gatggtactc 240
 atgtcagagc ttctattcct gttgacgacc aagttagata cattggaagg tcaggatcaa 300
 caactctgaa tgttctggca atatgtgatt ttgacatgaa tttcatgtac acctcagttg 360
 gtcaacctgg ttttatgcat gatacatgtg tcttgatca tgcaattgaa gctgatanag 420
 atacctccc tcacctccg aagggttagt agttcctata ataattttgt tactcaaa 478

<210> 7257
 <211> 491
 <212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-020-Q1-E1-E1

<400> 7257

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acgcctgccc gtacgggccc gagattcncg agtcgacggg agacggctcg aatacctgaa   60
gcacgagaat ttcattggaat gagcagtcag ttagtcaagg caatgccgag tcttattttt  120
acaaaagtcc aggaagacaa ttgtacttcg ccaacatgtg ccatttgctt ggaagactac  180
agtgttggtg aaaagataag ggtgctgcct tgtcgtcaca agttccatgc tgcttgcggtg  240
gacctgtggc tcacatcatg gaggacattc tgccctgtat gcaagcgaga tgcaaagtct  300
ggaatgtcaa atttccttcc atcagagtct acccctttgc tttcttctgc tattcccttg  360
ccagctgaat ccacaacttt gtcttctttt cgttcaatgg tagcagcatc tcctccaagg  420
acaataagcc ggcattcttc atggcagtc atgtcccgca ctaactcaa ttccagtatc  480
ctcacatccc g                                     491
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<210> 7258

<211> 400

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-020-Q1-E1-E10

<400> 7258

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cgggtcacgg gaggcgggtca cggtacaaaa agcgcgacga cgacgacgat gatgacagga   60
agccgcggta caagaagcac gacgacgacg atgatgacca cgagaggagg ccgcggtaca  120
agaaacgtga cgacgacgac gatgatgacg atgacagaag gccacgttac aagaagcgct  180
acgacgacga cgacgatgat gatacgaagc caggttaca gaagcacgat gatgatgatg  240
acgacgacga tgataggaag cagcgtcgcg ggaacaatcg ccgccgccac gatgacgatg  300
actgattatg acatgacttt acgctgacgc taataagcat aattgcggcg gctttgcac  360
gagtaattac gacatttcac atttttttca aagcattttt                                     400
```

<210> 7259

<211> 472

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-E7

<400> 7259

gggccgaana ttccgggtcc acggggcgag gaggcagcag atcgccagcg tggcctacaa 60
cggcagcctt ggacaagcca acaatccctt cgaaacgaac gaccctttcg ccatgtccaa 120
cagctttgag cccctttcca acatccggct ggcaatggtg acccagcagc agcaatactt 180
ccaggctcaa caacatcagc agcaatacta ctaccagcct cagctccaat actaccagcc 240
ccagctgcag cagcagcatc agcagcagta tttccaggct cagcagcatc agcaccagta 300
tttccagcag cagccccagt attgtgtgca tccggccgga acttacaatc cgtttggtga 360
ccctttcact gaccttgtaa ctctgggtgc tccttcaaaa caaggcgatt taagtttgct 420
ctgaattgcc cggccctggt tctgatctca gtcaatatag atgggtactc cc 472

<210> 7260
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-E9

<400> 7260

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gaagccgcgg tacaagaagc acgacgacga cgatgatgac cagcagagga ggccgcggta 120
caagaaacgt gacgacgacg acgatgatga cgatgacaga aagccacgtt acaagaagcg 180
ctacgacgac gacgacgatg atgataggaa gccacgttac aagaagcacg atgatgatga 240
tgacgacgac gatgatagga agcagcgtcg cgggaacaac cgccgccgcc acgatgacga 300
tgactgatta tgacatgagt ttaagctgac gctaataagc atagttgcgg cggctttgca 360
tcgatgaatt acgacatttc actttttttc caagcatttt tcatttcgct gttcactggg 420
caccatgcct ccaatcgtat gc 442

<210> 7261
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-F5

<400> 7261

cccggggcca cggggaccac aaagagaaga aggacaagaa gaagaagaag gacaagaagc 60
acggcgaggg ccacaaggac gacgacggcc acggcagcag cagcagcgac agcgacagcg 120
actgagccag ctccggccgc gctccggcag cagcgtgcag tgtaggcgag atcgatgaac 180
gcttgggaga agtgtggcat acatatatgt tgcagggttt ggagcgtgtg gtagcatatg 240
tatgtaatgc gtgacatgtc tcatggatct tgtgatgtat aataattagc cggctgcact 300
gcactgcacg gtgcttgtaa taataacggt aatgaatcat gttggtattg atgcatctcc 360
gttggttaatt tggatatccc atgtttttta aaaaaggcca caacagataa ccaataaagg 420
ggccgcccta aag 433

<210> 7262

<211> 217

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-020-Q1-E1-G1

<400> 7262

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attttgtttc tactttctgt atanatgtgg ntttgtgttt taattaatgt ttgtgccaag 120
taaaacctat aggataagct atgatgatag ttaatttgat tctgctgaaa aacagaaact 180
ctgcactcac gagaaaaaat taaattaatc acaggaa 217

<210> 7263

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G2

<400> 7263

ctgctgtacg gtccgagaat tccgagtcga cgggttgacg aggagggacg gcgggacgag 60
ctggttcgcc gacaatctca acaggggcca tcttgattac ttctacctgc tctcgtgc 120
tctcagcgcg ctggagcttc ttgctttcct ctacttctcg gcgaattaca ttacaagag 180

aaagcttgct aatgttcact gaccgagact aatacatccg tctatgtact atggatttgt 240
ggccaggtat acagtacaat tgcagtttagc atcagtaaag ttatacgagt acgctgacga 300
ccgaccctca gattttttttt ctttttttga aaaaaaaaaa aaaaaagaag aaagaaaaaa 360
aaaaaaaaaa gaagaagaaa aaaaaaagga aaaaaaggaa aaggaaaaaa aaaaaaaaag 420
gggccgccct aaa 433

<210> 7264
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G3

<400> 7264

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ctcggttact ctggtggcaa ccctgattgc gtccatcgcg ttcgtctcca tcttcaacct 120
gccaggccag tactaccagg acactagcag cgggggagag atcggggagg cctacatata 180
caagctcacc ggggttcgcg tgttctgcct cctgaacgcc atcgccctct tcatctcgct 240
cgcggtggtg gtggtgcaga ttacgtggt cccctgggga gaccggcgcg cagaagcaga 300
tcatcaagat tgtgaacaag 320

<210> 7265
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G9

<400> 7265

ctgcagtacg gtcttagact cccgggtcga cggagagagg ctaacaatga tgggaagggtg 60
agagtgcata taatccatgg actcaacatt agtcataaag aactcacaca cttattgcaa 120
aaatttatta gttatcgaag caaagtacta cgcgcatgct cctaggggga tatattggta 180
ggaaaacacc atcgctcgct cccgaccacc actcataagg aagacaatca ataaataaat 240
catgctctga cttcatcaca taacggttca ccatacatgc atgctacggg aatcacaaac 300
tccaacacaa gtatttctca aattcaaaac tactcaacta gcatgactaa tataacaaca 360

tcctcaaaac ccaaaacaat catcaagtat caaacttctc ataataattca atgcactttt 420
tatgatagtt tttatttata ccatcttg 448

<210> 7266
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H11

<400> 7266

ggtccaggac tccgggtcga cgggagcgcg gggcagaagg agcgggtgcg gctgctctac 60
cgccgcgcgc tcaaggacac cctcaactgg gccgtccacc gccacctctt ctaccaggac 120
gcggtccgagc tcagggacaa gttcgaggcc aacagaaatg tggagaacct ggacgtgatc 180
gatagggtca tcgaggacgc ggagycgcag cagaggaact tccagcaccg ggatccttac 240
attgttccat gggtccttg tggcactaaa ttcacaagga accctcctcc acctgaaggg 300
attgagatta tctacaacta tggcaaagaa gaccaatgaa caagaatcat gcatttgtga 360
gcagagcctg gcaccggcgg agtgcagagg acttactttt gcttttccag attataacat 420
gcaactgagc tgctggtatg ttaagaac 448

<210> 7267
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H4

<400> 7267

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acggagcagg gggaccccggt gtccgcggag gatcagatgt acgcaggctt gagcttgccg 120
gtagtcttag agagagtgcg cgattaggca ccgacgacga tgcagtttga tgcaagcggc 180
ttgcattgca gcttctagat gaggtttcta cttttccatc cgggcatcat tcggtcattg 240
cactgatgat tccattcctt actgtacata tggtatcatc atggtacgcc tatcaatcaa 300
agggacaatc ctgaacaat 319

<210> 7268
 <211> 473
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H6

<400> 7268

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attccccgggt ccacgggctg cataaaaaag gtccttatca caagtggcaa tataaagtga 60
cggtccctcg cattaagatt ttgtgcatcc aactataaaa gcgcatggca acctctgctt 120
ccctctgcga aggggctatc ttttattctt gtcttttacc ttatgcaaga gttatgggtga 180
tcttcacctt ttccttttta catttatcct ttggcaagca cattgtgttg gaaagattct 240
gatatatata tatatatcca attggatgta aggcacatg agctattatt gttgacatta 300
cccttgaggt aaaagggttg gaggtgaatc tataagcccc tatctttctc tgtgtctgat 360
taaaactttg aaccataaaa tatcgcgtga gtgtagcaa ttgtgaaaga ctaaatagata 420
gttgagtaaa tggagtttgc taaatcaaag ctctgacata aactcctcct gaa 473
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<210> 7269
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-A1

<400> 7269

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gaaaagatgg gtggaaaagg ttcgtcagaa agctgttaca gcttctcaag gacgagaaag 120
acgtgcactt cacctacggg agcgtccggc agaacgggat caggcgcgcc accaaaggca 180
tggcatcgtc caagttttgc ctgaacatcg ccggcgacac gccctcctcg aaccgcctct 240
tcgacgccat cgtcagccac tgcgtccccg tcataatcag cgacgagatc gagctccctt 300
tcgaggacgt cctcgactac tcggagttct gcgtgttcgt ccgtgcgtcg gatgctgtga 360
ggcaaggctc cctgctgcgc attctccgan gcgtgaccag ggaccagtgg actaccatgt 420
ggagaaggct gaangangtg gctcatcact ttgagta 457
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<210> 7270

<211> 53
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-A11

<400> 7270

cgtagcgtgc tccccagcag gcgtccaccg gtcggggcgtc tcatcctgtt gtg 53

<210> 7271
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-A12

<400> 7271

cgcctgcttg taccggccct aaattcccga gtccacgggg gtactctgtc tctaaggttc 60
gttccaatct caccatttta tttgattgag atgagagagg ggtcagggtg caccggtgg 120
ctgttcgtgg ttgcgtgctg cttatgtact gtgcaatatt attttttatt tttttggaga 180
tagttgctgc tctgtgctag aaggagggat gaacagagga gaaacaggac agggctgggt 240
gttgctctgca cacagagata ttgagataat tggactatt gttgtaaaat gttttaatgg 300
aaaaaaaaat cctccattcc cttgcaaata agtttggttt a 341

<210> 7272
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-A2

<400> 7272

cgggtcgaca ggaaaaaatg acgtaatgag atgatggtgc catcaagaag ttttcgacga 60
acgtagtagc ggccaaaaat gaaactcttg catgaaagac cggatttgac gcaagatgaa 120
tggcgttggg gtttttcaaa tgaaaccgt gatcagaaag tcaccaacgg agccatacaa 180
tctatctagt agtgtgccat ggcacggtac tccgcttcgg caatggaagg agcaactgtc 240
tattgcttta tctcatcaa gatagtgtct cgtctcccca taaaatagat aagcctgtag 300
ttgagcacct atctgaaggc ccaatcggca tcagtagttg cagcaactc taaagaagac 360

gatgatggaa aaaaggacgg ctcgagaaaa ggtacctcga atatatctaa gaatctgatg 420
aactgctgca aagtgaactg accggggggc agccatgg 458

<210> 7273
<211> 479
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-A5
<400> 7273

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actcacatga tttcaaaatt attggcatac tctatgtgct tcacttatat cttatgtgcg 120
atataggttt tgctctagtg cttcacttat atcttttaga gcatgggtggg ggatttggtt 180
tatagaaact attgttctct catgcttcac ttatattatt ttgagagtcc tttagaacaa 240
tatggcaata ataaaaactt tcatacaagt gcattgaata ttatgagaag tttgatactt 300
gataatcggt ttgagatatg gagacggtga tattagagtc atgctagtgt agtagttgtg 360
aatttgagaa atacttgtgt tgaagtttgt gattcctgta gcatgcacgt atgggtgaacc 420
gttatgtgat gaagtcagag catgatttat ttattgattg tcttccttat gagtggcag 479

<210> 7274
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-A7
<400> 7274

gggtcgacgg ggatagtaaa tgttatcgac acccgtagca ggagaatttt gaggggagca 60
gtgaggaagg gacacctagt aagagcaaat tccaattgaa actcagagat ctccggagaa 120
gcacttcctc gtttgcttta ttggacagga attatctcac tcccattttt acctctcaac 180
acgaggacga tgatgacgat gacgacaacg acgatgattc ttgtgaagtg ttggcgatac 240
ccaggcccag cgcttagatg ttgggaaggc tatagctaata gactgcaagc acaaagtgc 300
cggttttttg cggtattaca cgaagaagct ctcagggctg gtaccagttc tgggttcgtc 360
ggagttttga caaaaactgt tctgtctgcg ttgagataag ctcttctgat ttcttctgat 420

<210> 7275
 <211> 241
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-A8
 <400> 7275

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 agactaggaa ggatgggaca tcaacatctt ccatacacta gttgcaatgc agatatacacc 120
 ggtaacgtat atccgcgtct gcctcagtag tgaagcatca tcaatccgca tgtttactac 180
 acatcagtaa ggtgttttag actatgacga caacgacgat gattcatgta aactgttgcg 240
 t 241

<210> 7276
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B1
 <400> 7276

gacgatgtgc ccgatgatga tgatctccgc cgggtcattg ttgatgcaag ggcacagtga 60
 gagagtcaaa aggagaagct gaaggtcgat cacatgttag aggatcacia aaaaggggtg 120
 taccccaatt gcgaagatgg caacacaaag ctccgggacca tactggaatt gctgcagtgg 180
 aaatcagaga atgctgtgcc tgacaaagga tttgagaagc tactgaaaat attgaagaag 240
 aagcttccaa aggataacga attgcccgc agtatgtatg cagcaaagaa ggtcgtatgc 300
 cctctaggat tggagctgca gaagatacat gcatgcccta atgactgcat cctctaacgc 360
 gatacgtacg aggatttgaa ccatgcccgg t 391

<210> 7277
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B10

<400> 7277

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cattgttgta tcgcgacctg aatgaaataa acgaaataat gctcttggtc aatcgtcagc 120
ctccggttca agtactgcac caagctgtta ttttttacct ttttgaaaag aagcacgtgt 180
tgctgtgttt attttatatt tttatctaag gatccagaca tctacaaaca caccagtgta 240
accaccaa at ggtcatatac ccctaaaacc cctttgcggg gcaagggcca aaataattaa 300
ttcaaccaat taataagggc ctccttcaag gttaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
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<210> 7278

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-B11

<400> 7278

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ccccatcgty ctcaagaaca ccaacaagag caacaacaac aacaaccagc agtagtagga 180
atagcttgty atgatatgat cctggcttgc ttgcatgctt gctgggtgtt gttgatcggt 240
ttttgtggaa ttttttgcga ttgtaattac tccatccgtg cggttcgttg agccaatcga 300
ttatgttata taactatata cttttcggcg attaaaaaaaa aataaaaaaaaa aatagggaaa 360
aaattttattg aattaataga taaaattgaa aagatttttaaaa aattaagg aggagtaaat 420
aaaaa 425

<210> 7279

<211> 288

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-B12

<400> 7279

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ctgggccaag ctggccttgg atcgctcccg ctgtagaaga gccgccgtag agattgatgt 180
ggtcagattg ccccaacgaa gttactgggt ttacaactac taccatcagt actgctgcta 240
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<210> 7280
<211> 463
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-B2
<400> 7280

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caccaggacg agatctgcga ggtggtgctg accaagagcc ccgacgcgtc gtgcgccgag 180
atcgaggagt tccgcgaccg cgcgcgcgtc ccgctcacca gcaacaacgg catgaagcag 240
cagggcaccg gtttcgcaa ccccatcgcc ttcttcccca aggagccgcg caaggagtgc 300
ggcgccatcc tccaggctta cgacctcaag gacgcacccg agaacccatg aacccccatc 360
ccatccatat agtctcgctc agttgcttcc catcatcatc atcatcatc tctcctcatg 420
actctcctac gtacggtgcc cttgcctagc tacttctgtt cca 463

<210> 7281
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-B4
<400> 7281

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gaggcgatcg ccgccgcgtc taagacgac aaggacgcgc tggagaaggg cggcgccgcc 120
gacgacgcca tcccggtccc cgacgtcacc ggccgagtc tctcccgct cctcgagtac 180
gtcagcaggc acttctccga cccggccgcg gccgccgacc cgttcgacta catccccaac 240

ttcgacaacc cgctcaaggc cttegacgac gccttcgtcc aggtcgacca ggacacgctc 300
 ttcgacctca tccacgcggc cgagtgcctc gacattgagg ggctgatgga cctggcgtgt 360
 aagacggtgg cggaccagat gaggggcaag accatcgagg agatccgcaa aaagttccac 420
 gtcgtcaacg actacacgc ac 442

<210> 7282
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B5
 <400> 7282

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 ctccaaacct ttatattcca agggaggctg gtgcctattc accttggcga atcttcagaa 180
 ctgcacaata ttgttattca ttcttataca ctaacactag agcaagctat ttgttcattt 240
 gctgatgctg atccactagt gcaacgcctg actctgtgtc aacttgtgc actaccgaag 300
 ttcccctggc gattggacaa tactttctagc ttttctcatt tgagatattt acaactgttg 360
 ttgaatatct tctctgaaca tgccaacgac attctctcta ttgcatattt tctagaggct 420
 gctocattcc ttcaggagtt tgatttggag t 451

<210> 7283
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-C11
 <400> 7283

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 tgtacatgag gacggcaaga tctgtgtgac catctttttc aacacctgta cattggatct 180
 tggaggacca atcagtatga acgcgtcgtg tcatcattcc tcttggctta cattatgccc 240
 agacatgcaa agttgtggat cgtctgtaag ctaccatttg ctttcgtatg tcctatgtct 300

gtgatatttg caactaaacc tattgtgcta cgtgctttct atgttcgtac attgttaggt 360
ggctccttat tgtgtgcata c 381

<210> 7284
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-021-Q1-E1-C12

<400> 7284

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cgaggggtgtt gttgaggaag atgatctcgt cgagcgtctt ggccatgcgg cccatgctct 120
tggggatgca tccgacgaac ttgttggttg cgaagacgac gacggaggcg gtggagttgc 180
cgatggtctc cgggatgggg cccgacgaagc ggttgctgtt gacgaagatg gcgtcgtatg 240
gcttgctgaa gagcgcgggc ggcagctcgc cctcgaactc gttgaagcgg atgtcgtatg 300
acttgagcgt gggcatctcg aggcagacgt angggacagg gccgacgaag cggttgttgc 360
tgacg 365

<210> 7285
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-C2

<400> 7285

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tttcgtacta catcttgatg atatttggca ggaaacattt tgcgcagggt tacaacgtga 120
ggaaactctt caacacatct agagtatgga ccattcacac gccattggtc catcatgcag 180
tatccgcgct tgggactgga acttcagctc acccgtgcat tataggcccc accagtcagt 240
acaatatcct accataacac gtgacgacac caccgggtca ttactctaac cctttggtta 300
a 301

<210> 7286
<211> 462

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-021-Q1-E1-C9
 <400> 7286
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 aggtgagggg gatggagtcg atagaatccc taaggaaagc tttttgcaag cagatcaaac 120
 aaactggagg ggtggcgctc catgctcggg agggtaggca gtcgatgatc ttattaggga 180
 tgggagttgg tagttgggac ccaggatcgt ttatgggctg tgtgggctga ctaggcccgt 240
 ttcttgcttt gcctattttc caatgcttct gtgtgcagaa ccatgtgcta ctttagtggt 300
 tgtgcctaag atctattggt cacgaacccc aaccttcgat ttgccgaacc ctgatctctg 360
 atttgccgaa cccgaccttc gattcgctga accccaatct ctgatttgag atctgccaaa 420
 cctgaccttt gattcgccaa atcccgatct ctgattcgcc aa 462

<210> 7287
 <211> 448
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-021-Q1-E1-D1
 <400> 7287
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 tttcatgaat atatttgaaa gggattctct tctctattgc aatatgtcat ttgatgcact 120
 gttaagtgtt cgaaagcaac ttgaagaatt tgaatttcct tgcaaagctg taaacgatgg 180
 tctttggctc cagatgctcc tgtgccacag agtgcaagca atagttgctg atacttgcat 240
 aaactgttgc cttacaagta attcttgctc ttgtaaacaa gcatatgttg gtacacacag 300
 ccactacagg caggagcatg ataggacaag tgcttcagga actgcaggta gtatctacct 360
 tgcagatgcc caaggcgatg ggaatggatg gtttagtcct gtgcgtgtta acgtaagagg 420
 agcagttgat ggacttgctg gcattggg 448

<210> 7288
 <211> 432
 <212> DNA
 <213> *Triticum aestivum*

<223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-D10

<400> 7288

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cctagggaga agatcacaag atggaatgag ctcttggaag ctgcaaggga gggttagtgt 180
aagggccaca catatgcatc tgacggagct gctggttcat gcgtaaactg aatcaaagaa 240
acaaactacg agggacaatc tgaatactga cacaacagaa agaaagtcaa gtgctaattgt 300
gtcttagcaa tgaatcatgc gtaccaatac tggttaaaat cccaaaaggc tcgatcactg 360
aagccacatg aaactactgt attcgtgaga tgcanctcgt ctaaatacatg ggcattcctt 420
tggaaaaaaa aa 432
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<210> 7289
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D12

<400> 7289

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gctcgtagag tgcggtgga gggatgacat gaaggctctc tgcagggtt atgcaaggaa 180
aaaggaaga aataatgtaa cattagatga tcttattcat gttattactc caaaaggaag 240
agcctcggtg cccgatgcgg tgaaggcaga gctgctgcag cgcacccgat cctttctcat 300
gtcttctctg ctttggtagc ccatgaatca cgccgatcgg aaggcacgtg taggaagctt 360
gaagcatcga tcttgaacgc gtgacact 388
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<210> 7290
 <211> 303
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D2

<400> 7290

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gcagagcatc atactcatcg agtacctaca ggaacggatc gtgatgcaat gcgctttcgt 120
caatgatatg catgatagcc aaatgcacct ctacctatgc gtctagacga gacatactag 180
gtacttggga ttcttttgc agtagtaaat atatcgtcgc agcgagcgta ttccaaaata 240
tattaacggg acctcgagtc gcagaccaat gagcagtgc ctgatacaat catctcaaat 300
atc 303

<210> 7291

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D3

<400> 7291

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tcattaggag aattaatgat gtgatggaca tgacccatcc cttagcttag cattaagatc 120
actacagttt cattgctact gttttcttca tgcttataca tgttcctcgg actatgagat 180
catgcaactc ccgaataccg gaggaacacc ttgtgtgcta tcaaacgtcg caacgtaaat 240
gggtgattat aaagatgctc catagggtgc tccgaagggtg tttgttgggt tggcatagat 300
cgagattagg atttgtcact ccgtgtttcg gagaggatc tctgggcccgc ctgcgtaata 360
ctcatcacta taagccttgc aagcattgtg actaatgagt tagttttggg atgaagtatt 420
acggaccgag taaagagact tgccggtaac ga 452

<210> 7292

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D4

<400> 7292

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tggacttttt gcacataatt attaaagata gattttcgtg ccatgcgtaa accaagctgc 120

tgagagtcta cccagccac aagggggagc tgctccagta gttcaggata cccacccag 180
 cccacaagg gttgacggac cccctaccta tacctatacc tgatgattac ctatacctga 240
 tgattttcaa tccacagctc attttcttga atatgtgaca agccttgcaa attgtgataa 300
 tatgtatcaa attagtggtc cgcataaccc aatatttgaa aattatggag gtgcaggccc 360
 aagtacttcg aatcatcaac aagaaatcca agaaagaaca gcgaaggaaa aacgtgacaa 420
 gaaaagtgtt ttctcgactc gagatggt 448

<210> 7293
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-E1

<400> 7293

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 atgaacgccc gagtagcgat tattaaatga gcaaaggctc aaggaatatg aagaaacttc 180
 tatggattac tacgatttga gagctgacaa tgggtgtaa at ggacaaaaaa taccagtgtg 240
 attcacaatt tgacaagtgg tgaagccaag tccagggtcaa agcaatcgaa aacagaaaat 300
 gttcagattt gggtacaact atagatctgg aaaatatttg aaaaagaaaa gaaaaaccta 360
 ggtatggtgg agctgctagg tgaagaaacg gcaatggagt ccacttggtg caacaagagg 420
 gatctaaaac gtgatcaatt t 441

<210> 7294
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-E10

<400> 7294

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 ggaagaatcg gactgatggt ctatgatgtc atcaacgggt tgaactacat gcttgagttt 180

gtccgtccag aggagtatcg atcatcatct tacgcagcag aagagggctc agagtatgca 240
gataactaca gaagttcgtc ttacgtatca gaagagggct cagagtatgc agataactac 300
agaagtcgcg aaggatatga gccaacatac agtgagacgc cagaagaggc gcaggcggag 360
gaggattcgg ggggtttcag cttgttctga aactgcaagc ttggatatca gccgac 416

<210> 7295
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-E11
<400> 7295

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ttcccgctta gtatagggga aggctagcaa aagactggca agcgaccaac tgagagagcg 120
acaacagtcg taaacatgca ttaaaattaa ttcacaccga gtacaagcat gagtaggata 180
taatccacca tgaacataaa tatcatgaag gttatgttga tttcattcaa ctacatgtgt 240
gaaacatgtg ccaagtcgag tcaactcaatt catttaaagg aggataccat cccatcatac 300
cacatcataa tcattctaata aacatgttgg catgcaaggt aaaccattat aactcatagc 360
taatcaagca tggcacaaga aactataatc tctaaatgtc attgcaaata tgtttacttc 420
ataatagctg ac 432

<210> 7296
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-E4
<400> 7296

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gaggtagtga tattaaaatc atgctaattg ggtgattatg aatttaaaga atgcttgtgt 120
tgaagttagc aagtcgccgta gcatgcacgt atgggttaaag ttgtgtaaca aatttgaagc 180
atgaagtgta cctggcttgt gcatccttat gagtggcggt ctgggacgag cgatggtctt 240
ttcctaccaa tctatccctt taggagcatg cgcgtagtgc ttgggttttg atgacttcca 300

aatttttata ataagtatat gagttctttt gaccaatggt gagtccatgg attatatgca 360
 cttttacctt tccatcattg ctagcctttt cggtaccgtg cattgccctt tctcaccttg 420
 agagttggtg caaacttcgc cggtgcat 448

<210> 7297
 <211> 197
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-E5
 <400> 7297

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 gggtgaagtt tgcacgtccc gttacaggca cgtgtcgata aagttgtgtc acataattag 180
 tgcatagaagt gctacca 197

<210> 7298
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-E7
 <400> 7298

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 aagatcagcg gcgacggcca cggcgacggc aagaaggacg gcgagcacia ggagaagaag 180
 gacaagaaga agaaggacia gaagcacggc gagggccaca aggacgacga cggccacggc 240
 agcagcagca gcgacagcga cagcgactga gccagctccg gccgcgtgca gtgcagggga 300
 gatgaacgcg tgggttaatt tggagcgtgt ggtagcatat gtatgtaatg cttgacatgt 360
 ctcatggatc ttgtaatgta ataaccgggt gcaactgcatg gtgcttgtaa taataacgtt 420
 aatgaatttc cattgggaat ttggtaccat ccttaacaaa a 461

<210> 7299
 <211> 182
 <212> DNA

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agtttgtcgc ccgcacgcag aagcactagt cgctcccctc gcaagacacc acctcctcgc 300
aagacaccac ctcttgcga ggggtctcct gctaagcgca atgatgaccg ttctcctggt 360
aggcgcaatg atgaccgttc tctgttagg cgcaatgatg accggtctcc aggctctcgt 420
agcccttcaa catgagctga atgtcaaaca act 453

<210> 7302
<211> 456
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-F2
<400> 7302

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cttaatgcat aaaaatttcc aaacaaaccc cgaaaaatca caaaaattca cacaacactc 180
ctgttgttct atgttgacag gagaaaaaaa cttgaaagca ataagaggca atggatatcg 240
tttcgtcccc aaaggtggga cgttccctac cgaaaacat catgcttggt gtgagaagct 300
ccggtttgtg agaagcatat acccaaacct ccccaaagt ggaaacaatt tgtaccacgg 360
catgttgatg ccgctccatg atagcatgcc aagtttcatg aatttcagat gagttttgga 420
tttactagaa tttaaaaact aggcattctca ctgttt 456

<210> 7303
<211> 376
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-F3
<400> 7303

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attgcactgc aatttggaat tggttaaccg agtgcattgc ccggtcaagc gtcgttgctg 180

cacgcagggg ctggccctgc atggattgat gtatTTTTac actcaagctc gcaatgtaac 240
 accgacattt gttgttctct agcatctact actatacgtg attgcaacga acggaccaag 300
 acatctgatg aacacttgtc atgtttccct gtcgaaaatc tttaatatat caggaagcgt 360
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<210> 7304
 <211> 264
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-F9
 <400> 7304

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 ttgtatacaa cagagcgtgt gttaatactt actgtttaat atacttgtca cagtttgagc 180
 ttgttctaca atctcattag tcattacttc gtcagtgttt taggcgcatt tgatggatgt 240
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<210> 7305
 <211> 343
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-G11
 <400> 7305

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<210> 7306
 <211> 464

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 7306

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caaatcctag ctaggggttt gtaattataa gagatcttat acatattgta catgtatgta 180
gccagtagcg tcggatacat gatacgaaaa cttgttggtc gaccaacctc tcggagaagg 240
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tcgatcactt atgtatatat agtacgtagc gtccaagcac ggacataaga gaggacactt 360
ctctctatta attagctagc taacacaata tatganacac ctaattaaat taacccccca 420
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<210> 7307
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-G4
 <400> 7307

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tcacgtggca cgtctgcatc tatccgcgtg gtgacaagta cagcactgat tgcctcagct 60
tgtacttata cctggatgca tcggatgagc tccgtctcga gtccaagaag gtggttgtaa 120
tgactctgtc catcctggac caaaagaatg ggaaacactt gactgcaatt tcaggtctct 180
tggtgtttac ggggtggacgc ggctggggat gggctgattt ccttggactc aagaatctga 240
aggacccggc gggaggctat gttgtgggat cgagctgcgt tgtgaaggcg gatctcacta 300
tcgttggttc atccaatgat ggtagatgt tcacctcatg gcctgatgga gagataatgc 360
ccttgcaccc tacttataac tagacttcta tttgagataa tgttgtagta gcactactaa 420
aaacttggtg gatgatttag tagtaatgag 450
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<210> 7308
 <211> 361
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G5

<400> 7308

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ccacgacacg tggctggtgt gactctgtcc atcctggacc aagcgaatgc gaaatacttc  180
actggaattt cacgtcacct ggggttttac ggtggatgcc gctggggatg ggctgtattt  240
cctatgtctc agccatctga ctgacccgga cgcaggctat gtcgtgggat caatctgcgt  300
tgttatggcc gatctcacta tcgttgcttc atcgagtgat agggagatgt tcacctcacg  360
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<210> 7309

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G7

<400> 7309

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attgagacaa cgaatttcag ctatatagg agctgaacca tattaagtat gtgcatcctg  180
ggtggaatgc tttctgttca tgagctggcc tcccagcatg tactgttgag aaaagaaaag  240
aaggagactt tcaagttctt atgaaaagca agagagcttc taagttctac aactagagc  300
tggcgtagac gcgttctcag agctcatgtc cagggcttca tcagagctat tttctatgct  360
ggaaacctaa aacaacaaag attttcaatc caccagact aatcaaaatt tgtctaaagt  420
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<210> 7310

<211> 199

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G9

<400> 7310

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ttcagtggtca tgacgttggg aataaaagtc tattgctggt cttattaatg cgacgacact 120
agtgtagtat gttgtcacca cgctgcatca gagcgtggtg agtggtgtat gttgtcggtc 180
aggcaaaaag gagatgggg 199

<210> 7311

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H1

<400> 7311

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ttgagacaac gaatttcagc tatattagga gctgaaccat attaagtatg tgcattctgc 180
gtggaatgct ttctgttcat gagctggcct ccagcatgt gctgttgaga ttcgattcac 240
tgggagcttt caagttctta tgaaaagcag gagagcttct aagttctaca cactatagct 300
ggcgtacacg cgttctcatc gctcattggc atagcttcaa cagagctatt ttctatgctg 360
gaaacctaaa acaacaaaga ttttcaatcc acccagacta accaagattt gtctaaattg 420
gaacgggtgg tc 432

<210> 7312

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H2

<400> 7312

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gggtcaacta tttgtcatat agtaaattgc tagcaacgag catgtaaaaa cacattactc 180
ccgagcatca tctctccgtc taaaaaagaa gtggcaagct aatatttcaa aatttgattc 240

accttgatat gccagatttt gttgctatga ttgctgattt gcagggccca aaaaaagata 420
 tggttgggta caangacctg ccatcc 446

<210> 7315
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H6

<400> 7315

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 gaggcaciaa aggacgagga gcacaagaag gcggaggagc acaagaagaa ggacgggggag 180
 cacaagaagg acggcgagca caaggagggc atgatggaga agatcaagga caagatcagc 240
 ggcgacggcc acggcgacgg caagaaggac ggcgaccaca aggagaagaa ggacaagaag 300
 aagaagaagg acaagaagca cggcgagggc cacaaggacg acgacggcca cggcagcagc 360
 agcagcgaca gcgacagcga ctgagccagc tccggccgcg ctccggcagc agcgtgcagt 420
 gtaggcgaga tcgatgaa 438

<210> 7316
 <211> 85
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H8

<400> 7316

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 cataaacaca ttagaccctt aacct 85

<210> 7317
 <211> 265
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H9

<400> 7317

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 gcaagatgaa cttactgggtg aagttccagt tgcattcatt gtgcggattg aaggctctga 180
 gatcagcgag agcgagatca agcagttcgt tgcaaaagag gtcgttttct acaagaggat 240
 ccacaaagtt ttcttctgctg actcg 265

<210> 7318
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A3

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 tccccagttc catcccata ttggttcttg cgaggatggg gcggagaaac ggaagcatga 180
 agcggagagg agatcaggca gcccttcatg cacagagggc ggcgagggag ggcgcgatgg 240
 cgtccaagag gatacagaag gtgctcaagg atctgcagta ggatcccccc acctcatgca 300
 gtgcagggtca tgtgggtgaa catatgttcc actggcacgc aacaataatg ggcccatctg 360
 acagcccata ttctggtgga cttttc 386

<210> 7319
 <211> 169
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B11

<400> 7319

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 tgctgtcgct ggggcagcgc ccgtcagaag aggagctgcg ggagatgatc gcggacgtgg 120
 acaccgacgg caacggcgct gtggaattct ccgagttcct gaacctcct 169

<210> 7320
 <211> 453

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 7320

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 ctaagtgctg aaagtcttga tctgaaagca gctactgata taatatgttc caggacacca 120
 tcacagctgc aaataatgaa acagacatat tatgcaaagt ttgggtactta tcttgagcat 180
 gacattagtc agcaagcatc cggcgatcat cagaagatct tactagccta tgttggcatt 240
 ccacgctacg aaggcccgga ggttgatccc actatagtga cacatgatgc gaaggacctc 300
 tacaaagctg gtgagaaaaa gctgggcaca gatgagaaaa ctttcacccg catcttcact 360
 gaacgcagct gggcacacat ggcagctggt gcttctgcnt tacatcacat gtatgatcgg 420
 tcgttacaga aggttgtgaa gaatgaaaca tct 453

<210> 7321
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-B3
 <400> 7321

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 atccatttat tttctatggc tcgccgatca tcgggcaagt cagtcaaagt ccatacttca 180
 ttttcataca tgtatcctat cttggatttc atggcttcca gccatttgtc ggaatctggg 240
 cccgccatcg cttcttcata gttcgaaggt tcaccattgt ctaacaacat gatttccaag 300
 acaggggttg cgtaccactc tggtgcgga cgtgtcctcg tggacctacg aagttcagta 360
 gcaacttgat ctgaagtttc atgatcatca tcattaacgt cctctc 406

<210> 7322
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B5

<400> 7322

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gaagaagaag aagaggaaga agaagaagaa gaagaagagg aagaagtaga agaggaagaa 120
gaagaacaag aggaagaaga tgaagaagac gaagaagacg aagacgaaga agaagaagag 180
gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga acaagaagaa 240
gaagaagaag aagaagaaga cgaagacgaa gacgaagaag acgaagacga agaagacgac 300
gaagaagacc aagaagacga agaagaagac gaagacgacg acgacgaaga agaagacgaa 360
gacgaagaat aagaagaa 378

<210> 7323

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C10

<400> 7323

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ttcctttgtg ttgcttgttg tttgaataaa gataccaaga tctgaaattg ttgaatggga 120
gagtcttcac gggggttgcc tacttaattg actactcatt gatctttact tatcatcttt 180
cggaatagtt tgttgtttgc tcaaattgatt cacttatatc ttttacagca cggcggggga 240
tttagtttaa ggaaatggat gaactctcat gcttcactta tatatcttct agagtctga 300
acagcatggt gatttgcttt gggatatgaat ttagtcccaa tatgatgggc atcgaagatg 360
gatataataa acgactttca tatagagtga gttgaaaacg acagaagttt gattccttat 420
gattgtttt 429

<210> 7324

<211> 138

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C3

<400> 7324

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aattgattga atcttaccaa tgtactaacg tgcagcatgt cataccaaag tgattgtctt 120
ggaaataaca atttacat 138

<210> 7325
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C5

<400> 7325

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tccccgaaat ccgcagcttc aacaagggga acaaccgggc ccaaggccaa ttggaattcc 180
aaaaggttcc cccttgcaat tgccaggaga caaccgaca atttccaag gagaaccaat 240
gccaaaaagg caatggtggt cctgaatttg cccgttacca aattgcccaa ttaaggaaaa 300
a 301

<210> 7326
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C7

<400> 7326

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cacacttcag tatcccagca tcaacaaacc tgatgcataa tcctgtgata ttaacatctg 120
gccacactta cgaaataaaa tatattcaga aatgggtcac tgaaggatac aacacttgct 180
ccaagacaca ttaaaagcta taaaactttg cgatgattcc aaatacttgc atgagggatc 240
tcatttgcaa ctggtgcaca gagcatggat tcacaatctc agattttctt ccaggcaaag 300
attcctacag ttatttgcca gagcaattgc atggtcactc tatgtcaagt ttgcacaatg 360
tttcagtacc tctaattgct gggaatgcc a ggaatttt 398

<210> , 7327

<211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-C8

 <400> 7327

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 gacaacccgc agcaggcgcc caaggtgaac ttcgacgagc gcaccgggga gaagctggac 120
 aacgcctact accacgagct gctggcgcgg cggggcctgc tgacctcgga caacacgctg 180
 gccctgtaca cgcagacgag gccgctgggtg gagcagtacg ccaaggacga cgcgctgttc 240
 catcagaggt tcggggaggc gatgcagaag gtgagcaagc tggacgtgat catcaagaag 300
 aacaacgggc agatcaggcg ggactgccgg atggtgaaca aagccatcga ggtacgctgg 360
 atgcccattcc ac 372

<210> 7328
 <211> 238
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-D11

 <400> 7328

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 cttcgtgggt catgagatca tccggtcagg aggcttcaac tccgacaaga cagggaacgt 120
 tcctgacact gtaaattccca gggtcgaaca gttcaagaag gatagcctca ccgtgcttgc 180
 aaggctcagc aatgttccct cacacatggg gaaagaatgt acacagagaa tggcgaca 238

<210> 7329
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-D2

 <400> 7329

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 gggccggccc ataaccaggc aacaagcgat attaaaaatg actcgaaaaa gaaatgcgca 120

cacaacagtt tcgaacacgc gacctcatgc ttactagcgg ccacgccaac aatctgacct 180
agctcctgaa tatggccaat tgaagtgcaa attttaaagt acaatgtaca acgacaaatc 240
aatTTTTTtTt cttcaaaatt tccaataatt cttgcaaaca aatgtaaacg attttcctta 300
aatatatattg aaaatcgtga ataaatatcg aaattcgaac aaacacttaa aacccgaaca 360
attattgaaa acgtgaccac tattttgaaa ttccaattta ttatatacgt tattttttgt 420
aaaatatata ttaaacaatt ttt 443

<210> 7330
<211> 323
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-D5
<400> 7330

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attgtcctat tgatgtatat gggtaaattt aagtctagag ttaaggatca taggttatgt 180
aaatttatct attgtctcaa aagtgtctaa ctacagatgc tagataagta gcgagctttg 240
gggcgtatct aatgtcgagg aacatagtaa agatgtcatt tgcacaagaa gacacacacc 300
aatctcaagt tcagtttgca cat 323

<210> 7331
<211> 423
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-E1
<400> 7331

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ggatgcaaga acagaggggac aagatccaag tcacggtctg caaacacttc cataaggggg 120
gcaatttttg caactagaag attagggggg aggtacagag agggaaatca actagttcta 180
aaactaaaag aagttcatgg ccagaaaatt ttggaacaac accttttacc tttttgtttt 240

cacttgggaa acttgcccaa ctatgccaat ttttttttgc aattctccag atttattgcc 300
 tggtcagcac ggagaattgc agacacattt gcgttttcaa aaaaatattc cccacgattt 360
 tatgtcttga tttctcgtcc tttttactat gtttttcatt gtgcaaggag agcctcccaa 420
 cgc 423

<210> 7332
 <211> 203
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-E12
 <400> 7332

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 caactcttca gggtttttca tgagctccga cataggccac accaaagtgg tcgatgagga 180
 ttcactacca ggctccaaag tat 203

<210> 7333
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-E3
 <400> 7333

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 gtaättatga aattgagaaa tacttgtgtt gaagttggca agtcccatag catgcacgta 180
 tggtaaaagt tgtgtgacaa atttgttgca tgaggtgcta ttttaatggc ctaccctatg 240
 agtggaggtc gggattgcgc gatggttaac tctaccaac cttccccta agatcatgcg 300
 tagtagtact ttgcttcgag ggcaagtaga cttttgcaat aagtatatga gttctttatg 360
 actaatgtga gtccatggat atacgcacac tcaactcttc actttgctag cctctattat 420
 accatgcaac ttttcgcagt atcatgcat 449

<210> 7334

<211> 348
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-E6

 <400> 7334

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 cacacagtga tcaaattcgg cctggggcaa aggtatctcg ggaagaattg tactcagctt 180
 tcggtcataa togatagccg ctagtggcat ggcaacattg acaaggacat cagcacttca 240
 agttgagtgc catcaagtaa atgacagtgt acaattgctt cagtagatgg taaaactctg 300
 cgtctcagtg atgacggatt tgggcacagt ccatttggtg atttaagt 348

<210> 7335
 <211> 260
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-E9

 <400> 7335

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 aactaaacag gatcgggtgt cgacaatgtt gtggccgtgt gttgggtgtg attgtttgtt 180
 tgttgcactg gctgcattca ctgggtgggc accacgatct atacgataat gtgtacgttc 240
 gtacgtactg tttcctgaa 260

<210> 7336
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-F10

 <400> 7336

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 ggatgtaacc taagcacttc cttgatgatc atctgtaagt aatggagttc accaagatta 120

gcatttgtga tgacaacacg tcctcgaggt agcactttct gaacttctat ttgagccttc 180
gccatctcct cagggttttt catgagctcc gacatagccc acaccaaagt gggtcgatga 240
agattcacta cgagctccag gtatgtccta gaaataagag tgcatgcata tgtggacata 300
gataaaacag atagtaatta tgacaaggta aatagatgaa acatttacat cagaggtgat 360
aaaataccta accaagggtc taccgacaat cgtagactta cgagagg 407

<210> 7337
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-F12

<400> 7337

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catgatggca gcatgcgata cttcagatc tgggtctgtt gagcagctgc ggactcatgc 120
tcgcaggctt cagataccta tatttgagaa gggatatgag aaggatccag cagttgtggc 180
gaaagaagct atccaggaag ccaactgaaa caaatcagat gttgttcttg ttgatacggc 240
tggccgtatg caggataatg agccactca 269

<210> 7338
<211> 120
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-F2

<400> 7338

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ttttaggagt cacgttcatt tggtagaccc aagttacaca ttcgtgacat tttctacccc 120

<210> 7339
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-F4

<400> 7339

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tgtgcacccc gacatcggtg tctcctccaa ggccatgtcc atcatgaact ccttcatcaa 180
cgacatcttc tataagcccc ccggctaagc cgccaaactc gcccgctaca tcatcaaccc 240
caccatta 248

<210> 7340
<211> 77
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-G10

<400> 7340

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atttgatgat gttcctc 77

<210> 7341
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-H11

<400> 7341

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aagccgcggt acaagaagca cgacgacgac gatgatgacc acgagaggag gccgcggtac 120
aagaaacgtg acgaggacga cgatgatgac gattacacaa agccacgtta caagaaacgc 180
tacgacgacg acgacgatga tgataggaag cctcgttaca agaagcacga tgatgatgat 240
gaccacgacg atgatatgaa gcagcgctcg gccgaacaacc gccgccgcca cgatgacgat 300
cactgattat gacatgagtt taagcttacc ctaataagca tagttgcggc ggctttgcat 360
ccatgaatta cgacatttca ctttttttcc aagcattttt catttcgctg ttcaactggg 420
caacat 426

<210> 7342
<211> 367

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-H4
 <400> 7342

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 ccgggggaca aggaggcgct cgatgccgtg gataaacacct tcgggcctga gcacggcgtc 120
 ggggcccttg acggcgcgct ggccaacgcg catgggttcg ttggcgccgg cggcgacctc 180
 gacgtcctcg ccggaaagcg tggggtggga ggccgcgggc caggaccccg ccgggtggcg 240
 cgccgggagg acgtggtaga ggagcagcgt ctggaacgac ttgaggttgc ggggctcgag 300
 caagaagcgc ttgaactccg ggtcgatgtc ccgctccagc gcctcgttcc ggggccccaa 360
 gattgtg 367

<210> 7343
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-A10
 <400> 7343

gtggtgggtg ttccgcgcac acccaccagg gatgccacgc gcactatacg atgccgggta 60
 ctgcgccacc gatgtatcct cgcagttgga gttgttgtct gatgacagtg gtgtggctga 120
 gcgaccacga gtgaccagcg ccattgggtga ttatgggaga agcagacgag ataagctaca 180
 gggagggagg ggaaaatgcg acgcaggact cgcgagccgt gagggtttat atagtaggcc 240
 tgtaagtatt ggatttttgg tgatttcacc gagtcgggtg ggaagctcgc gcaggaacct 300
 gcgaggttac gcatggaatg agctcactga cgattcattg gcaccacagt ttggccaaaa 360
 gaacgcccc acgcgttgca taagcttgcg ttgtacgcct actgcgatag cggtgtgac 419

<210> 7344
 <211> 476
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-A11

<400> 7344

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tgcataggtt ttgccatacg atgtcggaaa aaaacgtata atatataaac ggattcagca 120
cgaaaatccg catccgatgg agacagccta cgacctgttt ggaattttttt agaatcgtca 180
aattcgaaca ggaaaaaaag atatgggtcaa atttcagttt tttaaaaaaa aaattgggtta 240
aatttgggtca aactacttat tcaagaagta ttaatgtgac tacataatta ttcaagaata 300
tgagtgttac taaataatta tttcaatttt gtgaattttg gtcaaactat ggtcaaacta 360
tgcgtcaagc gtattcaaga catattagcg ttactaaata actaacaatt ttttaaaata 420
acagtttcaa actcacaacg tgaaatgtgt gacttcatgc tcaagctaaa ctctctg 476

<210> 7345

<211> 216

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-A12

<400> 7345

tcatgcaact acctactccg gatcccgatc cagcctcagc ttcacctgac gccggcccta 60
attttgtgtg atcaaatttt tgctactagt actaactatt gatgatcact gttgcaccat 120
ttatttagtt tatagcgtca caactttcca ctgtctcttt tcattctcta ccttgttata 180
gatcgtcggc tccagctcta tcgaacgatc catgca 216

<210> 7346

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-A3

<400> 7346

cgggaaagtt cttgtctccc tggtcattgg gagcaggggc cttggcaagc tcaagagggt 60
gctcttgggc agcgtcagcg attacgtcgt gaacaatgcc gcctgccctg tcaccgttgt 120
caagccagcg agtaaccatg cctgatctca gcacgcgaaa tgtccacatg tgttttaatt 180
tgccagagtc ctatatatcc agttggccgc aacttattga accatccagt gttatttga 240

ataataattg acaattagcc tgtggatgat tcccagggtgt gtgtaaacgg tgcattgtgtc 300
 ctgtacatcc tgtacatttg tgtgcttata ttcagcctag cttttgtctc atgagtcagt 360
 ccgtgcagct gtttgttgca cacagtttgt 390

<210> 7347
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-A4
 <400> 7347

cgggcatcac atgagtgact cctcccagggt cattgggagc aggggccttg gcaagctcaa 60
 gatggtgctc ttgggcagcg tcagcgatta cgctgtgaac aatgccgcct gctctgtcat 120
 cgttgtcaag ccagcgagtg accatgcctg atctcatcat cgcacatgtc gcacatgtgt 180
 tttagtttgc cagagtccta tatatccagt tggccgcaac ttattgaacc atccagtgtt 240
 atttgtaata ataattgaca attagcctgt ggatgattcc cagggtgtgtg taagctgtgc 300
 atgtgtcatg gacatcctgc ttatttgtgt gcgtaccctc agcctagctt gtgctcaatg 360
 agtcagtccg tgctgctgtc tgttgc 386

<210> 7348
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-A7
 <400> 7348

cacgggaaat tcattaaatg gataaatgca tttgccatgt tatgggtact taaaagaaaa 60
 aaaaaaaaaa aaaaaaaaaa aataaaaaaa aacataaaca agaaaaaaaa aattgaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaagggggc cgcccaaaag gttcaaacct aagttaccct 180
 tgaaggcaat gtaaaacccc ttcaaaattg ccaccaaatt taattcaatg gccgttcttt 240
 taaaaactcc taaacgggaa aaaccttggg ttaaccaaatt taaacccctt tgaagaaaat 300
 ccccttttca caattggggt aaataccaaa aaggcccaaa cgaattgcct ttccaacaat 360
 ttgccaaccc taaatggcaa aggggaacgcc ccctg 395

<210> 7349
 <211> 339
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B10

<400> 7349

ggtaccaata gtgaatcgta tctctctcgg ctccccgctc cgagtcgcgt cgcgttagga 60
 gaaaggaacg aaaccggaa aggtttctcc gccgacgcgg aaaggggaga tagccgggaa 120
 gggaggcaaa ggctgctcg cgggtcaagac gacggccgcc aagactgccg agaaagacaa 180
 aggaataag gccccatct cccgctcgtc acgcacaggg ctccagttct ctgtgggccg 240
 tatccatcgt cagctgaagc aaaggactca agccaatggc cgtgttggtg ctactgcgga 300
 ggtctactct gctgctatcc tggagtacct gacagctga 339

<210> 7350
 <211> 433
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B11

<400> 7350

aagaagcaag aggaccttga acggctaggg gccgacgcgt tcgttgtcag caaggatgcc 60
 gaggagatga aggctgcgat gagtaccatg gatggcatca taaacacggg gtctgcaaac 120
 atccccatgg cccctctctt ggggctactg aaaccaacg gcaagatgat catggttggc 180
 ctcccagaga agcctatgga gatccccccc tttgctctgg ttgctacgaa caagaccctg 240
 gccgggagct gcatcggcgg catgaggggac acccaggaga tgctcgacct cgccgccaag 300
 catgacgtga cggcggacat cgagggtgatt gacgtcgagt acgtgaacac ggccatggag 360
 cgccttgcca aggcggacgt gaggtatcga ttcgtcatcg acatcggtaa cacccttgac 420
 aaagccgccg ccg 433

<210> 7351
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-B12

<400> 7351

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gggtctacta tgcagagaaa ttgaagctac agcttctaac gctgtctacc actgcaaaat 120
tggttcagtt gatgcagcag caaagatacg gtacctagat acccggcgtg cttctaata 180
tgaagtanaa acatttgaat acaagcttct tggggaagta cgaatgatga atgctctaag 240
gaagcacaga tccatagtgg acatatatgg tcaccaactt tcttctaaat gggttcaaga 300
tgatagtgat aacgagtaca ggataatgca gtctgtaatt ttaatggaat atgtgaaacg 360
acgttcactg aacggctatt tgacanaact actgagagac ggcaagaaac atgtacctgt 420
ggacctggca ttttacattg 440

<210> 7352
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B3

<400> 7352

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tgacgaagtc aaacttccta aagtttgacc aagtttatag aaaaatataa acatttacca 120
taacaaatat gtatgatgtg aaagtacatt caataatgaa tctaattgga tttatttggt 180
attgtatatg ttaatatatt ttgttataag ctttctgaga gtttacaaaa cttgactttg 240
accaatgcta atacgcggac ttaaataaaa acggagggag tacacatttg ttttcttagt 300
ttgtagtgaa cgaatcattt gttgaaattg tgaaataaat atattaggct attgacttcg 360
aatgtaatgg tctatacaat tcaatagtta caatcaatgg tgaat 405

<210> 7353
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B4

<400> 7353

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 tgacgttagt acatctgcgt actgccgtga tatttaccag tggacgacca atcgatatgt 120
 ttgcgcgata accatatgtg gaaggattaa ctcaactacc aaatggcccc gtgcgaatgg 180
 gtgtacacgt actgtagtaa ttataaact gcagaatcaa gtgtcgtatg caacttgtat 240
 caggaagtcc tccgtatcaa tatcgtgtac gggtttgcta agactcgagt aaacatttgt 300
 tttcttagtt tgtagtgaac ggacgcactt gatgatcctg gcatacgtat gcatgcagcc 360
 aacgt 365

<210> 7354
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-B5
 <400> 7354

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 ggtagtagt caatcatcat tggatcaacg tttgtgcaa gtataacaga tgcgatggac 120
 taccatgata attgatttga gtctactgat tgccagaaac attgcgagca cgaacagaca 180
 ttagttaagt cacatgatcg taattatgcc ttgaacagac gctgtatcaa ggacctcata 240
 gatgcgaatg atgattacag caccaaaagt ttgcataatg tacagactgc cacagactgt 300
 actgtgcata acatattcag cttctcgtat gatggatgct cattctatca cgactatcgc 360
 aatgaaatta tccgatccac ctgcccga 388

<210> 7355
 <211> 344
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-B6
 <400> 7355

ttccgccggtc cacgggtcca aaataccttc ggcacagaa aagtgcgtac gtggtgggca 60
 gtctcacgaa tgtctcgatg atgtgaataa catcctgttg tttggttcag atcgaagctg 120
 tagcacctgg atgatgcatg ttcctttatc tgtacagtgt gatgttgtga atttgggtgg 180

gtttgagaat tcgtcagttg agttgcccta tgctattcaa taacaacatc attgttttagt 240
gcactcatgg atgcgactga tgaatagagc agctaaaatt tgcacaaaag acagtactgt 300
cacggactgt actgtgcatg acatattctg cttttcgtgt gttg 344

<210> 7356
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B7

<400> 7356

gggccacggg atcactgcag tgtgctgatg ccgcatgggg cgtcaaatta atgcaacccc 60
tccacaacgc cgtccataaa ggccatgttt cattggcaga gcctttccca ccattttgct 120
ctctctctct ctctctctct ctctctctac ccttggttag ctcttcacag tgctatataa 180
ggggcctcac ctggcgagcc attcttccta ccaccacccc accatgatgt ccatgcatac 240
ctccccacct ctctctcct ctagcgtcca gctgccgagc ccgagccaca cctgctctcg 300
gcacgccatc ggcaaccggg gtttctttgc tgactgtctg ccgaggcttt cctccacagc 360
caggcgttgt cgtccactcc gttggctcaa gggcggaacc tcccagggca ctgctccccg 420
ctgattcacg gcctggctct accctctctg 450

<210> 7357
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B8

<400> 7357

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gaggactcca caaagtacta tccccgcttt aacctggaag atacttcaag ttttagggac 120
ttggatgaac atagcaaaaa tgctcctaga agattatacc atgactatta tttcgttcgc 180
caagaaaatc tttggcgaca aaatgcactg aagactctac ctgttctatt gaactgttcg 240
gatatgttgg catgcgggga agatcttggc cttatccctg cttgtgttca ccctgttatg 300
ctagaactcg ggttgattgg attgcgtatc cagagaatgc ctagtgaacc aggcttgga 360

tttgatattc cgtccaagta cagctatatg acggtttgtg ctccctcatg tcatgattgc 420
tccacattac gtgcct 436

<210> 7358
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B9

<400> 7358

ggggataagg aaagtgacgt ctcggagggc gaataggaaa tctcgggaagg agaggagtat 60
gacaacccca aggccagtga cgccaagaag aaacaaatat gcgaggggtga ggagaatggc 120
gaagatgatg aggaagaaca agaggagcac gacgggtggag gatgtgacga cgatgatgat 180
gatgacgacg atgatgacaa tgaggacgac gacgatgatg acgacgatgt cgctgctgaa 240
tacgatgagg atggagtata agaggaggat gacgaccagg acaacgacga tgatgaggag 300
gacgatgacg aggactcgct ccaaccccc aagaagaaga agaagttaag cccttcgaag 360
ccgctgcctt aatcaccatg ccatt 385

<210> 7359
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C1

<400> 7359

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tgttgcatga cgtgctcttt tgattgtctt ccttatgact ggcagtcggg gaccaacgat 120
ggtcatttcc tactattcta tacctcttgg ggcattgcgta gtagtacttt gcatcgaggg 180
ctaagtcgac ttttgcactt atctatatga gttctttttg actaatgtga gtccatggat 240
acacgcacag tcatecttcc actttgctat cctctattag tagagcgcag ctttcacagg 300
tctcatgaag cctttatttt tcttctacaa ctc 333

<210> 7360
<211> 435

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-C11
 <400> 7360

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 tccggttttag gcagcagggga aaatcacgac catggttgga gatgacgaat taagataaca 120
 aaggcagtgg gatattttgc aagtgtgtca tgggtgaatgc catattaacg aaatatctat 180
 gatagctcca tcaatattat gaggatatgt tataaagaga aatcaccatt gtgattatcc 240
 ctcgatttaa attgactgag gatccataca attcaattac atgagttgca tacattaaat 300
 gagatgatgg catgatgaca tgatgcaatg caacaagcaa ctaaaacaca tggcaaagct 360
 cggaataact ggaagtcttc tggggcgccg ggctcggggc gttacaacac tccactacta 420
 caggaggatc tcgtc 435

<210> 7361
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-C12
 <400> 7361

atctgcaagg aaattgagag catacaggct gatgaacaca tcgacatttg gcgaattagc 60
 ctcaactcct tttcaatttt gacgacacaa tatgatgaag aatagtcaca gtctgaatat 120
 atgacactta cagtctccac gtctgtatca tccagcatca ttggtgcaag gtccgagagc 180
 cgaacctcct tggcctccac ctgagttgga ttggacgcct ttgccacctg cacacgcata 240
 cacagaagag acatgataac cataccaaat cactttttta tttattgcat ggatggcagg 300
 gcaattctga atatgaagtg actccagaca cttaattcta ttgaaccatc aaaagagatg 360
 ccacacttta gtttctacaa aaggccccta gtcaacatat taacatcacc ggcaatgttt 420

<210> 7362
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C4

<400> 7362

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tcatgccatc atgtcatttc ttttcttaac tcgactaaat aaattgcatg gatgttcggg 120
ccattttaa at cgatggatat tcacaatggg gattttctcat tataacatac cctcccaata 180
ttagggagct ataatacata gtccatttaa ttggaagcca ccgctagaga cttgcattat 240
aaatccctct catttctaaa ttattttgca tccatgatct tttctccgca tggctccttt 300
caagttgtgg cacattggca ttatgctgcc aagtggctac ttgttaattg tcagctcaat 360
tataaaatat ttggaccctc aaatattttc t 391

<210> 7363

<211> 466

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C5

<400> 7363

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aaactagatc atactaaagc tttattctac tagatcaaga ttttactaaa aggatcgaac 120
taagaaaaac agtaaagata ggagtgtgat ggtgatacga taccggggca cctcccccaa 180
gcttggcagt tgccaagggg agtgcccata cccatgtgtt tatgtctctt tcttcggagg 240
tgggtgatgtg atattcttgg cgatgatgcc cctcaggata caattctctt cctcgagtta 300
ttgacttgct gcttaaggtc cattatttcc ttacggagct tgcccgtgac gactaaagct 360
cctttcacca atggatgttg tatagctgcg ggagaacaag taacactctt tttcatattt 420
tcataagaaa gaaatctaac attagaaagg atgaccgagt ttggga 466

<210> 7364

<211> 466

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C6

<400> 7364

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gtctcaggtg gagctgccat tgccttctta cacttgccgg tggagctcga tgggtgcgtcc 180
tcgacggtag cgcagcactc cgaggagggtg cgcttgccgg agttggcatc agagctcttg 240
ccggactggg tcttcttcgt cccccggga gcttcagegg caagtgtcct ctgttctgcg 300
gcagctacta cttcccggta gatcttgtcg gcacaagtaa gagcatcctt cttgtcgcca 360
gggacaatga tgacacttat gacgccgagc attttcagta cgttgtacgc atagtgagag 420
gctgctatga ac 432

<210> 7367
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-D11
<400> 7367

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tggttcggcc cctcgcggtg aaggtaaagg cctaataccag ttgttgtgga attactaggg 120
tttcgatgac cagggagaga atccgctatg cctggctctc gagttgttgt ttgttgtccc 180
taaaccgccg tcgggtcgtc cttttatata cacaggttga tgcccgacgg ttacagaat 240
cccgaggccg gtcataaac gtgtccggct cggtttctac ctttcctatc ttacaacaca 300
agttacatat gatatggcgg tttaggtcta catgccataa cccgcctcta ggccctgagc 360
cttcgtaaag cgccacactc cttgtcctca tgggcttcaa atataaataa ct cattatgg 420
ggataaccgg gactctcct 439

<210> 7368
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-D2
<400> 7368

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cggcgcatta aatacgtttg tcttacagtg tcaggtgatc aacttgtaca ctgtagatac 120

tttccacctc ctgtgtgcca ctgtggcgac cgctttgaca tataaaagga ggcccgaggc 180
gtactgtgga aggattcgga ctttttggac tgggcatgca tggcagctag ttcaagagct 240
caagaacacc aaatatacac agacaagcag gactagggta ttacacatcg tttgcgggccc 300
gaacctgggt aaaaattccc ttgcgttact cgtctagacc tgctctttgc gcagcccttc 360
acccccgcca actgt 375

<210> 7369
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-D7

<400> 7369

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gctcaatata aagaggcttg atgatgatac agagaatctt gctcatgagc gtgtgccgtc 120
agacctgaag aagagcatta tgcaggctag aacggacaag aagctcacac aggcacagct 180
tgcacagctg atcaatgaga agccacaagt catccaggag tacgagtcag gcaaggctat 240
cccaaaccaa cagatcatcg gcaagctgga aagggctctt ggcacaaagc tgcgaggcaa 300
gaagtgaagc tgcgtgtgca tctgacagga gtcgaggctt tcaagagagc ttggctgggc 360
aagtttaccg ctaaataaag cttgtctact aaatcatgcg acttaagaaa accccggagt 420
ttggattttc gctcagggtt gggatgaatgt aa 452

<210> 7370
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-D8

<400> 7370

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acgtgtgaag agttaagtga caatctggca catgatcgta tctcgtcgga cctaacttag 120
aacattacgc aagctagatc cgtcaatcag ctcatatacg tacatcttgc acatctcatc 180
agtgtaagc aactgggtcat ctattagtag aagtcaggca atgctttctt atcacgaata 240

catcattggt atcctcgaac atggatcatg gtaccgtacc gtcacgtctt actcgaagct 300
gcgtgtgtat ctgacaagag tctacgattt caatacagct tggctgg 347

<210> 7371
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-D9

<400> 7371

tgcgcagtat aagagaggct aacaatggtg gaagggtgaa aggggtgctta taatccatgg 60
actcaacatt aatcaaaaga actcatacac ttgttgcgaa aatttagaag tcatcaaaaa 120
tcaaaacact acacgcatgc tcctaggggg atagattggt aggaaaagac catggctcgt 180
ccccgactgc cactcataag gaagacaaac aataaataaa attgtgctcc aacttcatca 240
caaagcgggt caccatttgt gcatgctacg ggaatcacia acttcaacac aagcattctt 300
taaattcata atcaccccaa ctaccattgc ttgatacta tcacctccat atctcaaaac 360
aattatcatg catcaaactt atcttagtat tcaa 394

<210> 7372
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E10

<400> 7372

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gtataatcac cgcaaaacta tatatactga ccgtaaagag cgtattgtta catacgttga 120
ccgccagtgt attttttctca tttcaaatta agccatatta accggaaagg acgcagtatg 180
gactagtact agtactgctt tgatgtgtcc catcaactcg ccgaacgagg agaagcttgc 240
ttactacgcc tctccctcgc ccacgtgcgc ggtgggtcgc aggacgagga gatgggtttg 300
agtacagcgc cctctccctc tccctcgccc tcacagtggg cgtgcagcag ttcaattggt 360
gtcagattgc cagaagcata atgtgtactg tagtatcatc attgttggac cttctgaaga 420
ggcgacgagc caag 434

<210> 7373
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-E11

 <400> 7373

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 tattccctta agaacgctag ctttcgactt caccagctct gaggtacaca tccggctgac 120
 ccagcagtaa caatcgcaga gggctccccct tatgccctag ccgaattaac gggaaacgtan 180
 ggcataaata caagagccag gcaacctagc ttggccaaaa cttaagtcac atcgatgcac 240
 ataatggtga ataacgggta catgccgaat gataacacat gtgttgggca taaagcccgt 300
 atgaataagc ttctgttaaa gaatccccca ggtataatga gcgcggatag cgcgtcagtt 360
 gcgtgcaaac aaggcatgaa tgggctccta aaggctgtga gagaaaaaga aaaggagaag 420
 gagaaaaata taagacagat agtgtataaa aat 453

<210> 7374
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-E12

 <400> 7374

tccacggcac ctcgttgaac tgcagatgca caaaacatag tgtaccacct ccttcctcaa 60
 cccaaaattt gaatttttcc accaattgca aaacctggaa gaataaaaaa aaagggtcaa 120
 caaccaaag gaacctaacc aatcataatt gccctaagaa caatggtctc aggttcaagt 180
 caagaggaag gccttgaatg cccatttgct gtgaatcctt caacatcgta nagaacgttc 240
 ttatgtcntg tgggtgtggtc acacaatgtg caagaactgc atcttaagtc ttcagtgggc 300
 tgttgtcaag ttcncaacct ttectatcca gctgcctctc tttgtctcgt gtccttgggtg 360
 caacctatta tctttccggc tgggtgtacaa gggcaacctc aagttccac gtaagaacta 420
 ctttctgctg 430

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-E5

<400> 7377

gggccacggg tctgcaacaa tcaaatccgt atgtatcttg caaatctcta tgtctccac 60
ctggacttga tcccggatgg aattgaagcg tctctcttga tgtgcttggt tctcttttga 120
aatctggatt cctttgccaa ggaaattgca ccagtattgt cacaaaagat tttcattgga 180
cccgatgcac taggtatgac acctagatcg gatatgaact ccttcatcca gactccttca 240
tttgetgctt ccgaagcagc tatgtactcc gcttaacatg tagataccgc caccgacgctt 300
tgtttagaaa tgcaacaact aacagctcca ccattcaata taaacatgta tccggtttgc 360
gatttagaat cgccccggtc agtgtcaaag cttgcatcga cgtaaccatt tacgatgagc 420
tctgtngtca cttcataaac gaagaacata tc 452

<210> 7378
<211> 105
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E7

<400> 7378

cgggtttaaa ctaatcatat cgatatgtgt catgcaacgc tataagtcga taaagtgaac 60
ttgatgtcgg atggagctta tgcgtcacgc atgtagtgcg tgggt 105

<210> 7379
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E8

<400> 7379

aattcgccgg tccaccaact cctgctgctt aatgaggcca gtgagtatgt cgatcatgcc 60
ggccaaggac ttcagcaatg ccagctcatc gcgatcgccg acacggcgag tgcgcttggt 120
agagcccagc gtgcccgcga gagcttgctt gagggcttcg tggcgcgccg agatatctct 180
gttgcggtcg cctctacgcg gggggacctc tctactgctt acgtggcctt ggtctttgct 240
gcctggttat atgtccaccc gaaactcctc ctaccggtca tggcggaatg acttgacaag 300

aaagaccagt tttgtgggtg atgaggagag gaactgtgaa gtgatttttg agtgggtagt 360
 ttttatagcc tgggtgctaag tgtgaacaca tattagtttg atctgtgtga acgtatttgc 420
 aattacttat tgcgttgtaa tctgcagtgt gacgag 456

<210> 7380
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-F10
 <400> 7380

ggggccacat cgacatcgcc aagaagcata atgctgggac aaacaaagct gctcatagca 60
 ccacatcgct caatacaaag aggcttgatg atgatacaga gaatcttgct catgagcgtg 120
 tgccgtcaga cctgaagaag agcattatgc aggctagaac ggacaagaag ctacacacagg 180
 cacagcttgc acagctgata aatgagaagc cacaagtcac ccaggagtac gagtcaggca 240
 aggctatccc aaaccaacag atcatcgga agctggaaag ggctcttggc acaaagctgc 300
 gaggaagaa gtgaagctgc gtgtgcatct gacaggagtc gaggttttca agagagcttg 360
 gctgggcaag tttaccgcta aataaagctt gtctactaaa tcatgcgact taagaaaacc 420
 cggagtttgg tatttcgct 439

<210> 7381
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-F11
 <400> 7381

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 cgagtacggg taccgggtcc ccttcgggtg catcacgctc ttcattggca agatcgggtga 120
 gcctgggcct gagccggaca tctgcaccga cctcgtcgag acggctcagc gtgcaagatc 180
 taccaggtt aaaccggcca tgaagcgtgc cttcattgga gtcattccacg gaggagagcg 240
 tgacgacgaa tcagaacact gtacgagac catcgcttat tccggcgacg aatccttgac 300

cggagagacc gaatcgctat accagttgca agacgaccag attaggggct gttctgatgg 360
 cgacagtatt ccggaccccc cgggccaggt caaccggggtt ggaatattca tggccggcac 420
 acatgcggcg aatcactc 438

<210> 7382
 <211> 368
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-F12
 <400> 7382

cccaattaac aaactcccc aaaggcttcc cccaagcccc ggctgaaaaa attaacaaca 60
 ttttccacaa agggaaatga attcccacca taaaccatta ccggtaaaca tacaggttaa 120
 aacccggtac caaagggtcca agcagcaagc catcaccccc ccatgagcca aggaccctcc 180
 ttttccttcc ttattaatct agagatccct tttttgttta acctaategg acatgaagct 240
 tcctcaagct tgtttttcat tggctcttgc taaggtttgg tcaagttgtc agtccaaca 300
 tgtggtagct atgaacttat gatgatgtat gtagtacagc atggctgcat gagttttctt 360
 attcttgc 368

<210> 7383
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-F2
 <400> 7383

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 acgctgtgca ttgcacagga gcgagtgtct cgcgtaaaag ttaactcgct aatgctagtt 120
 gaccattaga cgtgagcatg ccacagttgc gtgattaggg aagacttttg ctctgtcaca 180
 caaagcacat gtggctaagc tgttccgatt ttctagcatg tggagcagat aaaactgaag 240
 tgccagggtta gtggtgatgg tttttaaaca caacgacagt gttgcatttg ctggtcaaaa 300
 cggacagacg aattancatg aaacagatta aacttgctta gtgaagtgat agctaagtgt 360
 aacaaacttg ggtcttcgct ggccgccaat gctccacgtc ngcacttgac anactggttc 420

cgccagccaa cgttgctcca cggcatgcat gcacatg

457

<210> 7384
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F3

<400> 7384

ggcgagcaca cagagaagaa ggacaagaag aagaagaagg acaagaagca cggcgagggc 60
cacaaggacg acgacggcca cggcagcagc agcagcgaca gcgacagcga ctgagccagc 120
tccggccgcg tgcagtgcac gggagatgaa cgcgtgggtt aatttgagc gtgtggtagc 180
atatgtatgt aatgcttgac atgtctcatg gatcttgtaa tgtaataacc ggctgcactg 240
catggtgctt gtaataataa cgtaagaa tttccattgg t 281

<210> 7385
<211> 221
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F4

<400> 7385

gcatcctagg cgaggtgacc gtcactgtgt tgctgttcga gggaaatcggc taccacctcc 60
tcaccttccct ctgccacttg ctcactgtct tcctcacctg cagcttcgtc tgggtccaacg 120
ctgcatcctt catcaacagg tcccccaaa agttccctaa ggtcatttta tctaaaaccc 180
aatccctggt aaaaccccag ttcctaagaa aaaaatccat t 221

<210> 7386
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F5

<400> 7386

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ggtgacggct tcatcgactt cagcgagttc atctccttct gcaacgccaa cccggggctc 120

atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgatccag 180
gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
ccgatccagc cccagcttca cctgaggccg gccctaattt tgtttgatca atttttttgc 300
tactagtagt aactagtgat gatcactggt gcaccattta tttattttat atcgtcacaa 360
ctttccagtg tttcttttct ttctctacct ttttgtcgat cgtcggctcc agctcgatcg 420
aacgatccat gctgctaatt gtttggtg 447

<210> 7387
<211> 451
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-F6
<400> 7387

cacggggtca tgtaaaatgg tacggttcac ggagtctata acgactggga ggagtgtcgg 60
agacagggtc accgattcaa cggtaacagt taaaaagggc acgccactaa ggccgaagcc 120
gaatctagac accaccgcca tctaacggga gaggggacgg agcgttggag gaaccggatg 180
acgacgagtt tcatcgtgat gaccgcagct ctcttctatg tgatggtact ttatatgatc 240
gatatctact tgtaatgtga agacaaactc gcggtctcga gacttgtaat ataattgttct 300
atcattgttc ggtcttttca attcggagac taatatgatg acttgatttc gaagactaaa 360
atcatgaatt gtactcacag actaatcatc tactgtactc catgaatcca ttgtttaagt 420
gtgctgtcca tattttgtcc aatatacatt t 451

<210> 7388
<211> 280
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-F9
<400> 7388

acatggctga gcagactcct gagatccctt gatagtgcct ccagcgggtt cggcggtagc 60
atgggctcgc ccgtgagatg gaacatggcc gcacctttca cgggtacacg ctcttcagaa 120
tgcacgtctt ggctgctatg ttctcttgcc tgtttgggag gcaccaacct tccccatttc 180

ctcctggccc ttttctggg gacaacctgg cgaaccttcc ctaaccctg gccagtggt 240
cccgaactaa gttctgttcg acactcgcgc cccgactagt 280

<210> 7389
<211> 383
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-G1

<400> 7389

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cgcgctgag gagcgctct cctcgggagg accggaangg agcgagtcaa actcatatcc 120
acttcagagc aagggtgggtc tacaactgct aatttaaagg gattcgattg tccctcgtct 180
gagcataagc atgataaagt gcagcaactg acttggttta ttgttttga aatcgcaacc 240
ggtgctctcc tgcttgtttt tgtgattact ggtgtcgtta ctgcctacag aagctgcaat 300
ctaaagcctt ctatacgaat atcatcatgg agcagatcaa aaagttggag cgccgagata 360
acagtactga ttggccaata acg 383

<210> 7390
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-G11

<400> 7390

aggcgctcct aagatcgtag aaggctctga ttaccaactt gtaacgcct caatgoggct 60
atagctccca cgtgtcaagg cagcacttaa aggcataacc gcattgaaag caatgtcgca 120
agtcaggcaa tcattacaac atcccatgta atatataata aaagggggag ataacatagt 180
tggtttacac tcgccagtc acatcagagt acataaataa catccatcaa acaaacactc 240
atggccctac tacggcgcca aaatagaaaa gaaccaaca tgcgacaagg tcctgaatcg 300
ataaccccaa ctaggcacca ctactgatca tccggaaagg acacgtagta tcgctgagag 360
tcctcgtcga actcccactt gagctcgtta tcgtcaactg gagcagaaac acctggacct 420

gcacctggag ttgt

434

<210> 7391
 <211> 460
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-G3
 <400> 7391

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 tggagttgga ggatgatggc gacggcttca gggcgaatcc ggccgagtcc ttgcgcgggg 120
 aaggagattt caaggttgcg gacctcctgg acaaggttgt ttcctgcggg gaggccggta 180
 gccgtgcttg tgggtggctc cctgtgggct gcaatttgca ccgtgagtcc gtcgggtccta 240
 gctccagctg caccgtggca tcacggcgct ggagcggcgc ggctcaagat ggcaatgggg 300
 ccccgaaacc cgctccccg cgggttttta ccctattang ggacggggat gggcgtcttt 360
 ttaaccccat ggggctgctg ctgggtaaat tataaaacc aacatgtttc acgggtttta 420
 accggtttga gcaatacccg aaccgaaac ccgccatccc 460

<210> 7392
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-G4
 <400> 7392

gaaaggatct gtcaaatata tcatcagtat caatcactat atgacaccac acaacagata 60
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 tgtcagcaat gctctctaaa tagacactgc aattatcatg tacatcattg ctgctgcaat 180
 aaaccactaa gaattattca atatctagcc tagcgccttc gttatcatca accgaggggt 240
 gaggcggagt taaaaatct gaatgagaaa ccaagggatt gtccaagtca gcgacatctt 300
 tgttatcttc agagctgtta gaagcagctg agatggcgtc acccgattct gaatgtgttc 360
 tgtccacata tgcttcgggt aaggagctct cgccacatc agcatcgccg ttatgccgag 420
 caatcagatc ttctcttctg acaaaatta 449

gtccacgggg ataaggatgg tgacttcgcg gagggcgaag aggaaatctc ggaacgagag 60
gagtatgaca accccaaggc cagtgcgcc aagaagaaac aaataggcga gggttaggag 120
aatggcgagg atgctgagga agaccaggat gatcaggagg gtggaggacg tgacgacgat 180
gatgatgacg acgactacga cgatcacaat gacgacgacg actatgatga cgatgatgtc 240
gctgctgaag acgattgata tggactacaa cacgacgatg atgacgatta cgatgatgag 300
gacgatgatg acttgctcca gccccgatt aagaggatga agtgaagccc ttcgactcgg 360
ctgctttagt caccatgcga tcagatgtgc ct 392

<210> 7396
<211> 341
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-G9
<400> 7396

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atttgatact tgataattgt ttgagatat ggaggtagtg atattaaagt catgctagtt 120
gggtgattat gaattgaaag aatgcttgcg ttgaagttag catgtcccat agcatgcacg 180
tatggttaaa gttgtgtaac aaatttgaaa catgaaatgt acctggcttg tgcacctta 240
tcagtggctg tcggggacta acgattgtct ttctgtacca agattttcct ctaggagcat 300
gctcgtagta cttgactttt gatgacatct aaacttctgt a 341

<210> 7397
<211> 464
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-H6
<400> 7397

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ccatgacacg tggacggtga gtgtaatgga aaggaaaaga ggaagaggg ggaatcaccg 120
aagtgatgg agatggagac ggggaagaca tcgatgataa aggtggagac gaggaaggca 180
tctgtgatga aggtggagaa ttggtgttgg tgtcacccca gaagctcaaa gattatttga 240

tgcattgtcg aagacgcttc cagttcattg ggacaagacc gacattgttg taatgaagga 300
 ggttcgtgta tgcagtcctt acctgcctga aaatgtcagc ggcggaacat cagctgctaa 360
 tgaacgggtt aagaaagtgc tggactttga gaggaaaaga caacatgtgc gtgtacctgg 420
 ccaattctaa ctgttctgac ttgacaattt tcacctcaac tcct 464

<210> 7398
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-H7
 <400> 7398

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 gctcttggtg gaaataccta ttgttggtga aattcaaacy atgtaaccta ttcttgtaat 120
 gtaaccaaca tgcactcaat ctctataggt gcaatcaaaa caatgaagca aaaaaacaga 180
 ggaaaaatag agcctatttc tctaggcctc tttaatcttt gtgggccttc gacaatcaac 240
 gcaatgcat ggcccaacta gagcttggtt tcattttggg cccaataact acattttttt 300
 ctcttgact tgggtgtgtc tgacgaaact gaaagtgtca aaaactaaca cctatagaga 360
 ttcagagacg aagatagaga catagttaa gcaacacaga gagcacatga tccacaaatt 420
 gagcaacaca aagagcacat gattcactaa cc 452

<210> 7399
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-H8
 <400> 7399

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 tcgggtgagg aagacaatcg tcgatgtggc agccgatgcc accaaagatg accagcagga 180
 agctgagact gtgctggcaa gtgcagttca agaaacaagc tagtctacct tacctttcaa 240
 aataagagtg caaaatagtg catcatggta atatgcagtc cccgtctcag gatcaacgaa 300

atatgtagct aggcagaaat agcatgtacg agtaaagagt aacttgcaac atgtcatgct 360
 caaggaacag gtcattcaaa caaacacacg ctaaatttca cgc 403

<210> 7400
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-H9
 <400> 7400

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 cgacaagacg gtgatgagat gccgctgaga agatcgatgt acagcgggtg aggccatcat 240
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 tgaggtggtg cgacgacgac ggcaagacgt acgtgaccag tgggtgtgat ctgctgaaga 360
 acgttcaagt ggagattgat gatgcacat ggtgaagctg cagcgtgagg caaggtggtg 420
 tgatcttgcc gctgcaaagt cttggcaaga tgttgcggtg ga 462

<210> 7401
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-A11
 <400> 7401

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 gtgaatttga gaaatgcttg tgttgaagtt tgcaagtccc gtagcatgca cgtatggtta 120
 aagtttgtga acaaattaga aacaagaagt gtacctggct tgtgcaccct tatgagtggc 180
 ggtcggggac gagcgatggt cttttcctac caatctatcc cctaagagca tgcgtgtagt 240
 acttgatttt tgatgacttc taattttttg caataagtat atgagttctt ttgactaatg 300
 ttgagtcctat ggattatacg cactctcatc ttttcgcctt tgctagcctc ttcggtaccg 360
 tgcattgccc tttctcacct tgagagttgg tgcaaacttc gtcggtgcat ccaaaccg 420

tgatacgata cgctctacca cacat

445

<210> 7402

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A12

<400> 7402

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cgggtgggcat attttcatca gggagtcctg cttccaccag tctggggatt ccaagaggaa 120
agtgaacccg acgcactacc gggagccaag gttttacacc aagggtgttta aggaatgccca 180
ctcctatgac caagatggga attcctttga gctttctctg gtaactccca agtgcattgg 240
agcttatgtg aagagcaaga agaaccagaa ccagatatgt tggctatggg agaagggtcaa 300
gtgcacagaa gacaaaggct ttcagagatt cctggacaac gtgcagtaca aatccactgg 360
aatcctgcgt tatgagcgcg tgtttgggga gggttatgtc agcaccgggtg gattcgagac 420
cacaaaagaa tttgtggaca agctggatct gaaagc 456

<210> 7403

<211> 335

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A2

<400> 7403

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aaatgcttac ctttgggttc aatcttgctg tgctcgatcc cagtgacaga aagggaaaca 120
acacgtattg tattgttgcc attgaggata aaaagatggg gtttatatca tattgcacga 180
gtttatccct ctacatcatg tcatcttgct taaggcgtta ctctgttctt atgaacttaa 240
tactctagat gcatgctgga tagcggtcga tgtgtggagt aatagtagta gatgcaggca 300
ggagtcggtc tacttgtggt gaagtttgtg attcc 335

<210> 7404

<211> 309

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-A4

<400> 7404

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 aggaacaaat tcaaaacggt ttacttcaac cttgcggcct gacgctgcaa gatcacttgc 180
 gccttggtac aaacaaaacc ggaataacac acgccctctt tcttctcatg tataccgtag 240
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 aactaaata 309

<210> 7405
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-A5

<400> 7405

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 tcgtgggtcat cgaggggtgat ttctctctta accacttccc aagtctcaga aagtaacga 180
 tgctatcttt gtcgtcatcg accaattctc gaaggttgct cactttctgc cagtcaagga 240
 gactatcact gctagtcaat tagcacactt gtatatctcc agaattgtgt cactccacgg 300
 tattccgaag gagatcagtt cagaccgtgg aagtatttcc actccgaagt tctgggatag 360
 tttccaagag gcaatgggaa ctcatattac ctggagcact gcttatcatc cccaatccca 420
 agc 423

<210> 7406
 <211> 142
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-A6

<400> 7406

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gtttgtatca aatttttgtg gcacttgcta ccttgatttg aatggagaca acggtgtagc 120
acatatccaa agcagcacac aa 142

<210> 7407

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A7

<400> 7407

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cggtgcgcgc taagctcctg acggatggct ctctctcaag cacgtgactg gcagcaacta 120
tggtggtgcg agagcctccc cagcgcgctc accaccctcg agatcgaga ctctggtagc 180
gcacacaacag caaccgcaca gagccgcagt ggacatcacg gtctgtcgc cagcctagg 240
gtccgcagcg acagggtcgg cggcaaatct aatccatata cactggtttc agcagtaagc 300
tgacgtctca tacatcaccg cgttcattct ccatcttgct ccttgacaaa ttagattggt 360
ctaccaattt ttttttggtg attgtggacg accaagataa ggataagaga aagtaatcat 420
aaa 423

<210> 7408

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A8

<400> 7408

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cttggttttt ctccatctt cgttggttga tcgggacgat aaacaagtgg tctcacaagt 180
cagcatggat gacgattggg tggaaacgaa catagaattt gatggacatg atgaaagcgt 240
ctctggcaat gctgatggca tacttaggcg tgtggaattg catccagcat agagtacggt 300

tatgggtgat gtaaactcat caatgatgag cagctgggta acaaaggact cgaactcttc 360
 ggtgatggcc tgggcgactg acaagtcact ggtagaaata gccaaaggaga ttgatgagta 420
 catcgtgaaa gcagccgcaa gtgggactga tgttg 455

<210> 7409
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-B1
 <400> 7409

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 tcagatttcc aggttgctcg gtgagatttt acagtttttc gtagtttaga tccagtcctgt 120
 tcttcatatc tacagtccac gaaaaagcca caaaaaaatt tagggtagt tcatcatatc 180
 cgaaccaatc tgagcctttg cataatcttt ttaaggtttt tgctttgttg aatttgcggg 240
 tgcacgtcg gtctagtgtc tgggtcttaga gtctagtctt ttagagtctc gagttctggg 300
 cataagttgt cagcgcgcg ccacaccatc atcatcgccc ctgccatcta ccaccaccgc 360
 tcatccgcca ccgtccgaa ttcgtatcca tataccacca ccaatccgtg tccatat 417

<210> 7410
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-B10
 <400> 7410

ccatagctat ctaggtagct cttatcacag tagtatcata tgtgggcttt ctttagttgc 60
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 tggggccggg agtttaccaa tgtttcttca tggatgcctc cctcatctta atattgaggt 180
 ggttgagttg gaccccatga tggaggaggt agcaacgaaa tattttggct tttcaatgga 240
 tgagcaattg aaggtgcatt tgggggatgg aatcaaattc attgaagaaa atgcccattc 300
 tgaaccaaatt ggcaaagaca gtgacgcagt tagaattctt attgttgatg ttgaatcatc 360
 tgatctaagt tctgggttgt cttgcccccc agcaaacttt gtcgaagatg ctttcttat 420

gtcagcaaaa aagttccttt ca

442

<210> 7411
<211> 448
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-B12

<400> 7411

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agatgctgag ggattgccng agcagttcnt atgcagggaa aggcattggct atgcgagatg 120
tcccgatgac acaggccaac atatgaagca gagcgccaaa gggtcactga gtgtggggga 180
tacattgaag atggctacct caacggagta ttgtcgggta ctctgtctct aggggattgg 240
gacatgaaaa tgcctcaagg ctgcagtc cctctgatcg ccgagccaga gttccagcag 300
accgtcctca cggaggatga cgagttcctc atcataggct gcgacgggat atgggacgtc 360
atgaccagcc agcaggcggg gaccctggc cggaaggggc tccgacggca cgatgacccc 420
gagaggtgcg cgaggagct cgccatgg 448

<210> 7412
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B2

<400> 7412

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cggcgctaaa acctccgcgc aaaaaatcgc cttcggcaac ctggtccgct tcatctccaa 120
aaaggtgtgg gccgcctgga cttgaccggc atccccgcgc gccgcggcta taacttctcg 180
taaattaggg agaccagca atggagacta ccaaagggt caggtcaggc caggtcaggc 240
ccgtgaaacc agtagtagta gtagtaccag ttggttttgt ccagcaagc aagcaagcaa 300
gcaagagcat ccgtctctc tatgccccct ttg 333

<210> 7413
<211> 211

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B4

<400> 7413

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cactttctgat gcggtgaaga ttcctttctaa gctgcacgat caagcttgct acactaggat 120
aactattgat aatctgactg atcatccctt gttcaagaaa gggtttttaa ctgtagtaat 180
tccgttaaga tcaacaccac atgcttcaaa g 211

<210> 7414
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B5

<400> 7414

actaccgaag tataatggcc tgtctggatg gctatatgaa cattgtgatg gagcaaaccg 60
aagagtacgt gaacggccaa ctgaagaaca tgtatggtga cgccttcata tgaggcaaca 120
tcgtcctata catcagcacg tcgaagcggc ccctcaccga ctgagcatac gccgagtggg 180
gcattcacat catcatgatg taatttcaag gtcgttaacc cgatgattgg ttgtgatctg 240
actggtgcta ccttttgcaa tcttgtacgt gttgtctgct gtagtgccctg ctgacagaga 300
cttatctgga atcatttcga tttgatgtta tctgcgtttt tagcttggag atgtttgtgg 360
ctaagattct gcgatcagga tagatagtag atttgtgtgt ccatagtcct gtgctgcata 420
taacagacat tacgtgtctt aaggacacc c 451

<210> 7415
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B6

<400> 7415

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ccgtatctac tgagggtcaag tagtgacatg tctcgatact ccggaacgag ttgcaccatc 120

gtcctcgct gcatcactgc taagccggct ctcatcctgt gatcatatgc gaattacacc 180
gtccacatca tcatgatgta atttcaccgt cgtaacgcc atgactggat gatatctgac 240
tgcgttcacc cttcttgcaa tcatgtacct cttgtctgct gtagtgctg ctgacatcga 300
cgtacctcga atcacttcca cttgatgtgg acatcctttt tatcttggag atgtttgtcg 360
cccagattct gccattatga cagacagga 389

<210> 7416
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B7

<400> 7416

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caactgtggt tgtgcataat tatggttatg tcagacgtgt taattgtcgc aatttccaat 120
tgggtgtact atatatatgt ttgccaaata atgtgtgcac cgtgtgcaac tatggaacag 180
cgaagtggta atcattttgt gagctttgga acagtgaagt gacacatatt tgtcctaaaa 240
aaaaaaaaaca aaaaaaaaaa taaaaaagaa taatcaacaa aaaaacaaac aaaaaatcaa 300
aaaaaatgga accacttcta gatgatcgac ctcgacgtac acatctagga aacttcaagg 360
ctctccaatt ctgccatcaa gacacattgc ggacccc 397

<210> 7417
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B8

<400> 7417

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gttcggattc agtgtccact acaaaaaaac gtttcagctc ccgctgacc ttctgtatac 120
ccatcgtgcg tggcaaaaat ttatacatcg gcttggctca ttcccgaac ccgctcgcg 180
tcgcgccgtg acgaggcgag gcgtggcgtg gtgtggcgag gcgggcggcg gaggaggagt 240
gcgcgtggat gtcctcttg ttctcatcct cacacatgtg gggaaagaac ctcccttata 300

aagagatcca actccctcta aacaagcaat gtgggactaa acttttagttc cacctcttgc 360
 cttgtacgaa tgggttgtgt gggcctcagg atttattagg aatttttgaa actgctattg 420
 ggct 424

<210> 7418
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C1
 <400> 7418

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 ttcagcttca gtgatttctc aaacaagccc attaagcaga actccaacaa gaagaatccc 180
 aacaacctcc cccagaataa aggccagtct aataacaatc atgaagcgat gagcaatgac 240
 tggctggaaa atgggtcaatg ccctcttgca aagtcata tagcaattgg tggagtcgtg 300
 cctcttgctg caaaactgct ggcgccccca gctggtatga aactgacgtg ccctcctgca 360
 attgttgctg cccgtgcagc aatatccgc acggcgtttg caaaagggct tcgccctcag 420
 cccctaccga c 431

<210> 7419
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C11
 <400> 7419

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 atctggaaga tcatcaatgt gtatgaaata gtcttcaaca ggcatgcaa cgaccaaata 120
 actggaatga aaaaggtgga agaatggggc accggcattt gtttcaggca gggagaaaaa 180
 caatgacaga gtatatacgt tcgtcaaaaat gaaatagggg aagtatattt acttacagat 240
 tgttcagctc aaacatgcca attatatggc catacacctc aagggaacaa actagagcaa 300
 gttaaggtaa ctcgaatgac aacgataact actcattgta tgaaagtttg aaacaagtct 360

ggtaactgcc aaaaaaggat acatggtgca cactcagcat cgaagatcgc atccttgaga 420
agcttttagtg actgcaaata cagaagccat gat 453

<210> 7420
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C2

<400> 7420

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atttgcttga tgttatatat aataatgctt tgcaccttta ttttttcaat caaatgtcaa 120
ggatagcctt taccatgctt attttgcaag tatacatggt gctgtttcaa aacagaaagt 180
ttaccgctgt tgtaaaaatt tcttagaaaa gtcagagagt gatataatgt tgaatctttt 240
tgaataatga gctctgataa atcttttata gcatagtatt tttcttataa tttttggagt 300
taaggaa 307

<210> 7421
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C3

<400> 7421

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ttatatcttt tataggcggg ggattaattt tgaagaacct gttcatctat catagtccac 120
ctatatcatt ttgagactcc tttagaacat tatgctatct gctatcggtt taaattcctc 180
ctacaatgat gatcccccaa gttgggtata attgatacta tcataagacg ttaattggat 240
gttaccatca acctgatact tgatcattgt tttgatataa ggatgtattg atattaggat 300
cttg 304

<210> 7422
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C4

<400> 7422

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cggttcaat cccccgggtc gggtccttgg cctgggtcac acccttacca acaacattga 120
cgggcgctcc aaaaactccg gcaacg 146

<210> 7423

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C5

<400> 7423

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gcatattcca gcatataacc ttgagaaatt cctcgatatt gatctagaag aaatttatat 120
gtattgtgcg gtgaattgca ttgaaaactt atattgccaa ttacataaag aagaggaaac 180
aaatagaagt tgaagagaat actaacgaaa gggaagagac ttcccaatat tctcctatta 240
tttcttatga tgaatcaggt aacgaggagg agccttatat tcaaccaatc tcattaataa 300
ggagctccaa aaagaggatt gaaccacac atgatgtgaa gaagaaaaag aaaagatgga 360
gaaggaaagg tagaaaggta tctctcccaa atgatgttgc tcctattact cattgtgatg 420
atgat 425

<210> 7424

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C6

<400> 7424

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gtgtttatct gaaactgaca atgcaaata cactaaagat aagaccagc gactccatat 120
gccagctgga gcgttggttg acattagtaa cttcatgggc acacattctg gaaatattga 180
ccatgctgtt aatgagaaga gaagaattga gggàagaaac actgcatctt cctttaaacg 240

ccccgctct tccagataaa tcctttgatt tgcacccctg ttagcaggct gtaaactcct 300
 tgatgccatg cttttgctat gcccttgctg tcaatgtgag tttgacactg catgtgtttt 360
 gcatgctggc gacgtttatt tatgcagcag caaggcagtg gatctttttt ttcagacgga 420
 tctaaaatga agatgattgt ctt 443

<210> 7425
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C7
 <400> 7425

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 tataccacga cgtgtttgcc cagagcacac atggcgtatt agcatcaacc atctgtgtta 120
 ttatcggctc tcgcagacat ttctaattac agacctagtt gccgtgtacc acacacatct 180
 tgttaagttg aaccgtttct gttctcttgg gtcaacgcaa acagtccatc tgagtgaact 240
 gtatgccgta tatcgcacac acctttgatc tggctgagcg tttctattgt gttgcctaag 300
 aaaaaacagt tcagttagtg aactatatgc catatatcgc agacaccttc atctggctgc 360
 acatttctgt tgtcctacct catcgcaa at aggtcactgg agtgaaccgt atgccaggta 420
 tcgcacacgc aactctatct gaaatgtgtt tg 452

<210> 7426
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C8
 <400> 7426

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 gtacgtgggc gacgaggcgc agtccaagcg tggatatctc accctcaagt accccatcga 180
 gcacggcatc gtctccaact gggacgacat ggaaaagatc tggcatcaca ctttctacaa 240
 cgagctccgc gtggcccccg aggagcatcc cgtcctgctc accgaggcgc cctcaaccc 300

caaggccaac cgtgagaaga tgacccagat catgttcgag accttcaaca cccccgcat 360
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gctcgactcc 430

<210> 7427
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C9

<400> 7427

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cgctcttgtc agcgttgga tctatggatg ggcataatag ctctctttat ggtgggattt 180
aatgtgtcac attttcccca catcggtgt gatcattgta catactgtgt cttgctgcct 240
gcgtttaaga ctgttgtaag acagcgaagt gtttgttccc cttcgggcgg gggactgtga 300
aatgaagaag tgaggtaaca aatgagaagc gggatgaagc aaggagcaac tgttgctgta 360
gatgcctgtg acttagtaca tgctagtttt tgttttcctg tcatcacaga tgttggaac 420
caggtttagt ccatcca 437

<210> 7428
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D10

<400> 7428

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tcgtcgtggc cgctctcatc gtggatcatg ctgccaccct tctcctctcc tcgtgcgacg 180
cccgcaaaga gaaggataag cccaccgctt cccccgtgtc ggggaagtgc ttctcgaggt 240
ttttcccaaca ctgcaccgat cagcgatgca agaagttctg cgtcgagcca ctccccggag 300
ccgtctgcat cgacaaaatc cactgttgc gccctattgc ttagttataa gcgtcgttga 360

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agcgatcggg ctaagaaata gtactggtta aagatggcaa catgcaatat ttgtacactt 420
cgacatatat accacctctg ttt 443

<210> 7429
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D11

<400> 7429

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tgccaaataa aataaattgc atcaaggat ttttgggttt ttggtttaat agatctgaat 120
aaaaatgcaa agaaaaagta gatcgcaagg caaatatatg tgaaagaaga cccggggggcc 180
gtaggtttca ctggtggctt ctctcgagaa aaatagtaaa tagtgggtaa acaaattact 240
attgggcaat tgatagaacc tcaaataatt atgacgatat ccaggcaatg atcattacat 300
aggcatcacg tccaagatta gtagaccgac tcctccgtgc atctactact attactccac 360
acatcgagac gtatcagcat cccaagctt aattcctact tgccctcgag taggtaagtg 420
ataaaaacag aaattttgat gtggagtgat gttc 454

<210> 7430
<211> 309
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-D2

<400> 7430

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gtcgtgggag accaaggaca gccagctgac gatggtggcg gacgacctga agccgcgggc 180
ggtgctgacg tgcccggaga agaagttgat ccagcangtg gtgttcgcca gctacgggaa 240
cccgtgggg atctgcggca actacacngt gggcaaagtc cacacgcca aggccaagga 300
gattgtgga 309

<210> 7431
 <211> 327
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D4

<400> 7431

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 gcggccttca tcgtgggtcat ggttgcaacc cttctcttct cttcttgcaa cccccgcaag 180
 gaaaaggata agcccacggc ttcccccttg tcgggaaaat gcttctcgag gtttttccca 240
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 atcgacaaaa ccaactgttgc tgcccta 327

<210> 7432
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D6

<400> 7432

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 ttttaattag tgtttggtgcc aagtagaacc gttgggaaga cttggggaaa gtcttggtga 120
 tcatgctgta aaaaactgaa acttttagcgc tcatgagatt tcctgccatt ttttattgga 180
 gagtgtctatt tagttaattc ttttgcagat gattaatata taaattcctc acgtccagaa 240
 atttatttta gaatttttga ggtaccagaa gtttgcgtta gttacagatt actacagact 300
 gttctgtttt tgacaaaattc tgtttttcat gtgttggtta cttattttga tgaatctttg 360
 gctagtaaaa gagtttataa accatagaga agttggaata cattagggtt aacac 415

<210> 7433
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-024-Q1-E1-D7

<400> 7433

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tgagctaagt agttttgctc tatgtgcttc acttatatct tttgagcggt ataattttgc 120
tctatgtgct tcacttagat cttttcgtgc acggtgggtg atttgtttta aataaactat 180
tgatctctca tgcttcactt aaattatatt gagagtctta atagcatggt aatttgctta 240
ataatgacat gcttgggtatt caagatttgt gaaactttct tttgagtgtg ttgaatacta 300
agaaaatttg gatgcttgat aattgttttg agatatggag gtaatgatat caaagtcagt 360
ctagtagagt aattgtgaat ttgagaagtg cttgagttaa agtttgcaag tcncgtaaca 420
tgcatgtatg gtaaacgtta tgcaacanat ttgaacatga g 461

<210> 7434

<211> 336

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D8

<400> 7434

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acttctgact catcatccgc gctgtacggc atcctacccc ttcttcttct cctccgtctc 120
ctctccctcc gacacataca tcattaccct taaggtagaa tttacttact ccaaatgcat 180
tgctctatct gcatctacac catgaatcta tgacgtgttt caaagacgaa atgagttgcg 240
ggagtattac gaacatttgt atacagcatt aatctacgat ctggttcact gagtagatta 300
ctgggggaaat ttgtatacca taaatctatg atgtga 336

<210> 7435

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D9

<400> 7435

cggggcaatg cgaaagcgag aggaggggtc gaactgtgtt atgtacctgc gtcgggtgtat 60
caccgcaact tgttactgca cacacgggta ttgtgaagat gaccacgatc tccatgagca 120

tegacatagt cgcctcacc ttggtcacgg gtgccagtct gctcttctcc tegtgccatc 180
 cgtcatcgga tatagatacg cacgtcgatt ccccatgtc tgagaaatcc ctcacgaggt 240
 ttttcacaca tttcacgcac catttataca ttacctaccg catccagcca ctcacctgtg 300
 ccatctgcat ctacgtctac cactgttgct gcgctactgc gtacttatac ccctctttga 360
 gccaatcggg ctatcatcaa gtactgggta aagatggcaa cc 402

<210> 7436
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-E1

<400> 7436
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 tgctcaagaa tgaaacgga acccctccgc tctgtgagc agtcgacgag agaaagtaac 120
 accaaaggaa aagaaaacac gtacacacaa agtgaatata aaagtgttca agactgtgaa 180
 ccgggaggtt cctggtatat ctacgttcat tgtacttagt taagttgatg ttactgttgt 240
 tttttctcgc tgccgccatg ccatgagcan gccaggcang cagcttctca aacttgtgtt 300
 gttgtaactt gtatgatggg agcttaagta cattactttg ttcc 344

<210> 7437
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E11

<400> 7437
 acgggatgca ccgaaaggca tcccctcttt cgtcttcgtt catcggtaac ttacttgga 60
 gctatatttt tattcaccac atgatatgtg ttttgcttgg agcgtcatgt cattttattt 120
 tcccttgctt gctgtttgaa taaaatacca agatctgaaa ttcttaaagtg ttagagagtc 180
 ttcatatggt tgcataatta ttcgactact cattgatctt cacttatatc ttccggagta 240
 gtgtgttatt gctctagtgc ttcacttata tatttttagag catggtggta gttttatttt 300

gaacaaatag atgaactctc atgattcact tagattatctt tgagaatctt aaatagcatg 360
gtaatttgct taaaatccta atatgctagg tattcaagaa taataaaaatt ctcctatgag 420
tgtgttg 427

<210> 7438
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-024-Q1-E1-E12
<400> 7438

ttcgcgggtc cacgggccgc taaacataga caaatattga gggaaatgga gcttgagag 60
gagaaagctt aagtagtggt gctcgggcat tccatcgaac acatcatgag cataggaggt 120
gagctagagc accacaaagc cctcccctcg cgggccagaa aaaacagagt agtgtggagt 180
gctctgcttg tcggcgaggg ggtatatata ggcacacat tgggtccggt tcgtgggttg 240
aaccgggact aaaggtcacc ctttggttct ggttcaagcc accaaccgga accaatgggt 300
gtgggccagg agcgaggcac attggtcccg gttcgagcct cgaaccggga ccaaagatgc 360
cagatgaacc gagaccagtg cccacgatg gcccgccag cccctggcc tcacgaaccg 420
ggacctatgg ccccatgggt cccggttctt ggctg 455

<210> 7439
<211> 445
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-E2
<400> 7439

tctcacaact gaaccgggaa aggaaattga cccagacggc atgaaactcg cgactaaata 60
aatatgtaga gactgatttc tgcaggactc atcttcttta gacctgaata aatatttctc 120
acaaaccgaa attattttac aaagatctgt gtaacatgaa gctagcaacc caaatgttgt 180
gtggaagtct gaagatgtgg taattcctgc atccgtaaag taatcttctg aagatgttgt 240
aattcctggt aaaccttgct ccaggccaaa agagtgggtg ttgctctcca agaaaaagaa 300
ggcttattga ttgcttgctt aagtgtttga aagatatcaa aacaatcgta tacaagatta 360

atgccagggc ataattggga gtacttagca aactggcagc tgaaacagag gtgttcctt 420
gcntctactg tccttagcaa catgg 445

<210> 7440
<211> 226
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-E3

<400> 7440

gcaagagagc ggaaagcgtc anggcagccg gcgagaaagg ggccggcctt ggtaaccaa 60
aaccgccgca acctccaagg aacctgccaa aaaggcccg cccttgagaa ccaaaacccc 120
gaaaaccttc ttggaaccg ccaaaaaccg ggaaaatggt aaaaaggggt tgccccctt 180
gaaaaccaca accggaaaaa aacccaaaaa actcgttggg cccaag 226

<210> 7441
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E4

<400> 7441

aacgacgaaa aaatgaggct atggtggtta tcaatgcaat ggtaaggatt agaaaaagat 60
ttcatcaagg ttacggccaa ggtatccgtt tgaaagcatg gacggttggt ggcgattaac 120
agtccttggc gaagatgagg agtggtagt ttgatatagc accgtaccta tatagccgaa 180
acacaatagg acacgaaacc acaactcaa ttctcaaaga caaaaacggg ccaaaattga 240
cggggatggt agcgggtgaag tgaagggtgt tcttgagaa atcgatggtg gtatcggagt 300
gtgtatgcgg tgggtggagt ggaattgaag tgcgtatgcc ggagtgggtg ccgtggccga 360
aaattttcgg gcgaaaaaaa agaagccaag gaagcccccc ccccaaaaaa aaagaggcca 420
t 421

<210> 7442
<211> 409
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E7

<400> 7442

gggcgtactc tatatatatta ctaggcgcca tgtcggacaa cgacttgctg ggaaattgct 60

tcctgtatca ctgtatgtaa gtcttttagca aacacttaca catttgcgctg ttctacgcac 120

atcgtctaga atttcagtga ctttgcgcat catgacaaaa tttcagcagt tcacttgctg 180

gaattgccat tgtcgcaact tctgagagct cgcgcgcatggg gtgctttcca tctgacagcc 240

ttgtagctga attcaatcca cattcattgt ttatgatatc aagttgtaat tgttgagttg 300

taagaaaaaa gataagtgtg atgatcatca ttaatagaga cattgtcaca atgaggaaaa 360

gatgatggag actaggagtc acccacaagt cgggacgaga ctccagaaa 409

<210> 7443

<211> 279

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E8

<400> 7443

cgggtgtaac ttaaagtgtt tcctctgtgc ctggtcgtac atagacttgt ctgggacatt 60

gcttcgtgta ccactgtaag tgtgtcgtga cgtacacatt actagagatg agtgatacac 120

cacaaacgtc tatagattca gtgacattgc gcatcatgac aaaatttcag cagttcaatt 180

gaggggaattg cgattgtagc aacttctgag agctcgcgca tgggggtgctg tccatctgac 240

agccttatga ctgaattcaa tccaaagaca ttttttatg 279

<210> 7444

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E9

<400> 7444

cgggcctagc taacagtggg agtagtaggg gcgatgaggg ctcaatggca acacagccgg 60

ccactggagg caggagcagg cattctcccc ggcgctgggt tgggcgggctg gtgcatgaag 120

ctgctgctac cctgtctctc tcccgtgtgt cattgaaaca tctttctttc tgtgtgaatc 300
 tgcaagactt ggccccttaa aaaaaaaaaa aaaaaaaaaa aaaaaaatta actaaaaaaaa 360
 aaaaaacaac aaaaaaaaaa agcaaaaagt aataaaa 397

<210> 7447
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-F11
 <400> 7447

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 cttcggtacc gtgcaatgcc ctttctcacc ttcagagttg gtgcaaactt cgccggtgca 120
 tccaaacccc gtgatacgat acgctctatc acacataaac ctccttatat cttcctcaaa 180
 acagccacca tatctaccca ttatggcatt tccatagcca ttccgagata tattgccatg 240
 caactttcca ccattccgct catcattttc atgacatact ttacttttgt cacattgcca 300
 ttgcatgata atgtagttga catcgtattt gtggcaaagc caccaagcat tatttttcgt 360
 acatgtcact cttgattcat tgcaccatcc tggtacacca ccggaggcat tcatatagag 420
 tcatatcttg ttctagtffc gagttgtaat ccttatg 457

<210> 7448
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-F12
 <400> 7448

acgggcctta tgaaaactag aactggatac ttaataaaac acacccttcc aagtgccaga 60
 tataa²ccgg tgatcgctct ctaacagggt gacgaggagg ggatcgccgg gtaggattat 120
 gctatgtgat gctacttggg gaacttacca tctattctct tctacatgct gcaagatgga 180
 ggtggcctga agcgtagtct tcgacaggat tagctatccc cctcttatto tagcattcta 240
 cagttcagtc catcgatatg gccctttaca catataacca tgcatatgta gtgtagctcc 300

ttgcttgcca gtactttgga tgagtactca cggttgcttt tgtccctctt tcccccttc 360
 tatacctggg tgctgcaacc agatgctaga gtccaggagc tagagatccc gaggatgatt 420
 ctacgtggag ttcggt 437

<210> 7449
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-F2
 <400> 7449

gtccacgggc tegtgttcgt gtcacgtta gtcacaaag cacgggcaca cattacttaa 60
 cccattggtt ggaagagttg acatttttgg tatatatggc ccctgccctg ttggaacggg 120
 tactgtctta atcagtgaca gtatattggt agttaatacc cgagatgcag accttgggca 180
 tgataacacc actacgtgtt gcaaattgca tctgagggtta cgtggctgga gtatcttgtt 240
 gcgtcagatt cttttttattc ttcttcttct tctgaaaatg tacaaaatga atctgaacga 300
 aggactatgc aaattatcgt gaaattttta tttttttgaa aaggggattg tcgtgaacgt 360
 tgagaatttt aaaaattgaa tctgaatttt agtactttta cgagatgaaa tcgggtctga 420
 aatgggagag cccgacagcg acgtactccc tccg 454

<210> 7450
 <211> 218
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-F4
 <400> 7450

aatcaaaac ataatcacia cgcatgggcc aagttggcgc ctatgaaagt tgggcaaggc 60
 caaagagatt cgtccccctt gcaccaagct gccagaccta acaagaacat gcaacctggc 120
 aatggggacc tcccacaaga aggaatgaat gggaatttcc tgaaaaaagg gccctgggg 180
 taaaatggct aacccacat aatccccaaa agggggccc 218

<210> 7451
 <211> 408
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F5

<400> 7451

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actgcagcat cagcaagtct cagctgcctt ttgtgcatcc tgggtgcctg attgtcaggt 120

gcatcaattg ataccagcac attccaactg tcattaggca tacattgtca tcgatagata 180

tatgcctttg aacttcatcg cagtacatct atgatcacta tggcgtaaaa caccaggagg 240

taccatgtca attcacacat ttgtccagca tatctcattg agcttgtcaa tctactaaga 300

tgatagcagt tcttacatct ttataaattc gacatcaatt actgtgatct ataattttac 360

agtgcattgt cacttatcac tatagtgtta cctattgcac acaacatg 408

<210> 7452

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F6

<400> 7452

gggcacagtc aaacacgcgt cctacttgtc gccgtccaat ggtcgggaac tcctccgagg 60

atgagtaggg catgggaggc ggcagggcat ggtgtgccaa ctggccggtc cgtatcccgt 120

gttctactct tcctcaccgg agaccgcacc ttcacttcac ggttcttgaa ccccgcccc 180

gtacatagag atgcagatg gaggacgttg gtcaccgccg tagaataggt ttaggatcgg 240

gtttctttta tttttctgtc ctataaaagt tcgaaatgta atgaaaatct ggcgtgtttg 300

cattaatctc ggctggtgta tatgaacttt cacaataata tacatattgt aggagtacta 360

gcaagatgcc cgtgcattgc acggaagatc aagatcttgt gggagaaaag gatgaacgag 420

ggaaaacctt atctgcaa 439

<210> 7453

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F7

<400> 7453

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agaacaaaag acaaagaacg tgtattagta cttgctgccca ctaataggcc gtttcatctt 120
gatgaggctg ttattaggag gctcccaagg aggttgatgg tgaatttacc agacgcaacc 180
aataggaaaa taattattag tgtaatacta gccaaagaag atttggcaga agatgtagat 240
ctggaagcag tggccagctt gactgagggg tattcaggca gtgatctgaa gaatctgtgt 300
attactgctg cacatcgctc cataagggaa ctccttgaaa aagagaagaa ggagagatcc 360
ttagcagaag cagaaaacaa atcattgcct cctaagtatt ctagcagtga tgtccgtccc 420
ctaaatatga gtgatctcaa acaggcaca 449

<210> 7454

<211> 274

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F9

<400> 7454

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acatccgaat taccaagctt tccttccacg taaaggagag tcccattcgg atacgggatg 120
aagtcttcta tcttgtatct tcatagtcca acagtctggc attcgcatat agtccggctg 180
tccgaggacc ctcaatccag gactccctta gcaggcacta actagccact tcacaagccc 240
aaattacctg ctgggaatgg ctttggcagg ccat 274

<210> 7455

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-G12

<400> 7455

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tttaggcgtg ggaggcggcg gagtggcggt ggagccggcc ggccagactc acaatcgatg 120
gagaggggtg tgcggctcag agcgggaggc tgtgacagtg gggcgtggcg gaggtggtgc 180

cgtgcggccg gacgggatca tcctggtcga acaggctcgt gccccagggc tgctcaccgg 240
 actccaattc ccaccgctct caagctctag atcgagcttc gtctggaccc atctatttgt 300
 gcgatactgc gtttcctctg gtggccatct gttccgctca gcgtttcttc tgaatttgag 360
 aggagaaggc cttgaggagg ttcatgcaac catggactgt ttagatgaga ttagttgaga 420
 gaaaaggaaa at 432

<210> 7456
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-G2

<400> 7456

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 aacaagaaac aagttagcac aaccacaatc cgtttcaata caatcctcaa ttcaattaag 120
 gaaggcttgt tgacaatgat tatgttagca acaattgaac aaacatctgg acaaaggccc 180
 tgggggcgcg tcaaagttct cggaagatgc gactttaagc tcggcgtcat ggaagtatca 240
 nacgggacac aggattaagg gggatgatntg ttgacctgt aatcctggcg cccttgatc 300
 tagtttaagt agttgtttct ttgcttttca aaactctacc gcatgtgcac 350

<210> 7457
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-G3

<400> 7457

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 cgattcttcc gcaggaggag aagattccgg caatcatctc ccgcttcacg gtgttccatg 120
 agacgttcat ggcagagtac cgtgactaaa ctggtgttac atgtgtggga ttacatgcaa 180
 gcctcatgga ttttccttag gcgtttttgc ccgcgttgac agcagtatcc tgtagatgag 240
 aaaaataag gcaaatccat ggcttgtgtg tgtgatacta tatcagatta ccagtctgat 300

gcctttgatg gcaaattggc aactgagaat ttttatttcc acanaanana nnnnnnnna 359

<210> 7458
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-G4

<400> 7458

tcgacggggt cctcattgtt caagttcagt tgggttatgc tacttgaatg gttcgaaagc 60
acaggtttga agatgatttc cctgcatgtt tgggttttgc tttcctgctg atccgtttct 120
tccctgaact ttcagttatg gttgcttata cagaagagag acggtcaata ttgtatgctt 180
gtgtatgcta gtgaagtggc atgattcatt tttcttgtgt gtgcatgcta cttatagtgc 240
aaaattgttc gcttgtatat gctactgtaa gtgcctatgt tgaagcacac tatttaagtt 300
tgttttacac acagaacttc aactagaaac ttttgagaaa gtacgcccgc tttgtttttg 360
tgaaaagttc aagtatgatt gtttgaaaag tacaaaaatg aatg 404

<210> 7459
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-G5

<400> 7459

cggggatgag gaaggtgact tcgcgagggg cgaagaggaa atctcggaag gagaggagta 60
tgacaacccc aaggccagtg acgccaagaa gaaacaaata ggcgaggggtg aggagaatgg 120
cgaggatgat gaggaagaac aagaggagca ggagggtgga gggggtgacg acgatgatga 180
tgacgacgac agcgacgatg acaatgagga cgacgacgat gatgacgatg gtgtcgctgc 240
tgaagacgat ggagatggag tagaagagga ggatgatgac gatgaggagg aggaggacga 300
tgaggacttg ctccagcccc cgaagaagag gaagaagtga agcccttcga cgcggtctgt 360
ttagtcacca tgcgacgaga tgtgctgtc cttcactgtg ttctggaaac tttccttaga 420
gttaaaaatg cccccacacg a 441

<210> 7460

<211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-024-Q1-E1-G6

 <400> 7460

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 agctaattctt gatattttgta ttagcatggt tgagttttgc atgtagtcta gtctagtgtg 120
 gtgttcgtcc gacgaagggt tcagggtgagc gcgccaagga ggtgagatgc caggatgccg 180
 tgtgaggcgg cgagcacggc gagatgccga tgggtgctgcg tgagaagcgg caagacgtat 240
 cagaggctgg agccgtgatg gactgcatca aattgggtcg ggtgaaccgg ccggtcgttc 300
 tgtttgttgg actagctggt catgcgtgag ttcgtttagt cctagctgag agtatcgttg 360
 ctagtagttg atgcatgcat gtagttggcc tggtcacaag tggttaccga gtcgtgtgca 420
 acgctggagt gatttcagga gtggagta 448

<210> 7461
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-024-Q1-E1-G7

 <400> 7461

 catgttatca aaagtaccga ccttagtgag ctccgataca ttagatggg catcaaggag 60
 gtgttaaggt tgcacccctc ggctccgctg ctgcgccag agagaggaga gaggactgtt 120
 aaatcatggg ctataacatg cctaaaggaa ctaatatctt cgttaatatc tttgtaattt 180
 ctcgggatcc caaatattgg gacaaccag aagagtacaa gccggagagc tttgagaaca 240
 gcaacgtcga atattatggg acacattttg aattcgaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggaaaaaa 360
 aaaaaaaaaa aaacaaaaaa aaaaagcggc ccctcaaaag g 401

<210> 7462
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H1

<400> 7462

gggcacaagg gcattggaaa tggaacgggtc agctatggaa tggatgatgc tgatgacata 60
tacatgcgggt catggactgg caccattatt ggtcctcaca atactgtcca tgagggtcgc 120
atctaccagc tgaagctggt ctgtgacaag gactaccccg agaaggcacc atctgttaga 180
ttccattcaa gaatcaacat ggcttgtggt aatcacgaga ctggggcggt tgacccgaag 240
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<210> 7463

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H10

<400> 7463

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aggttcatag ccttggtctc aaagcttcaa gctcttatag aaattagaac tgagggcctt 180
ttaaaatgag tcctgcataa tagtggtggt cagtgggatg cagattgttt ggtaaatctga 240
tcggctatcc ttggtgctga tttacgtact gatttcatca tcatatgact acaataaaga 300
agttatgtgt ataaatatta cgaactgctg atactttgca tcagtgattt caattcaaaa 360
aaaaaaaaa aaaaaaaaca aaaagaaaaa aaaaaacaac aaaaccaaaag aaaaag 416

<210> 7464

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H11

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ttatgctata tattattacc caattatgtg tagccatcct atgatgtttg agtagattat 360
ttttgtccta tgggttgatt tatgaacttg attggtttga gttgcatgtt ttacttttgt 420
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<210> 7465

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H12

<400> 7465

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cccaaatttc aattcacggg ccgtctttta aaaacttcgt aacgggaaaa acccggggtt 240
tcccaaatta aaccccttg aagaaaatcc ccctttcca acttggttata ataccaaaaa 300
ggccccacc gtttccctt ccaaaaattt gccacccta aatggcaaata ggaaccccc 360
ctgtaccggc ccataaaccc cggcggtttt ggtggttaacc c 401

<210> 7466

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H5

<400> 7466

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acgtgctgtt gatggaatct tcatgtctt gagagcattt gaagacacgg aaatcaccca 120
tattgatgat acagttgatc ctgttcgtga tttggaaact attactcaag aactgaggct 180

caaggatata gagtttgtgc aggctaaaat tgatgacett gagaaggcaa tgaagaggag 240
 caatgacaag caacttaaga tagaccatga attatgtcag aggatcatga cacatcttca 300
 agacgggaaa gacttacgtt tacgagaatg gaaagctgct gaaattgaga tcttgaatac 360
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<210> 7467
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H9

<400> 7467

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 agctgatgta atgttacacc gtagaatcat cgttcgtgac gataataatg atccgaccag 180
 aactcctcta gtatcattgt tctgttgtca ttgtgtagtt tactctgtat ctgaactttg 240
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 gcctgtctga ctgatacatt gttcatgtag tcgatgaatg atagcacctg tgtcgtctca 360
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 aaaaacaatt acataacact t 441

<210> 7468
 <211> 130
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A1

<400> 7468

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 gaattagtgg 130

<210> 7469

<211> 365
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A11

 <400> 7469

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 cttcatgttt gtttacataa ctctgcaagt tcccacacaa cgacacgatg ctttagatga 180
 tctatatcta ctcacgtggt aagaggattc gttcggatga cttactcttg ttttacccca 240
 tacaagtaga tggaaagttg agacttggtt ttcttcatgt ggaagtgatg gttttagta 300
 atatcttgaa aaaatgtggt tatgttcttc ttgttctaata tgaaatctgg tacgcaaacg 360
 ccatg 365

<210> 7470
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A2

 <400> 7470

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 ggcaggtgaa caacgtgaag gcgctcgctcg ggccttcga gaccgtcatg gacgacagcc 180
 aaagcatcgc caccgcacgc aagccgctgc tcaacctcca tgctgaact acgagtacat 240
 tccaccagca tgaaactcga tcgctgcgc ctctctctt agcccggtc ctctttaatc 300
 acccatcaac ccaatttgct gtcgtcgac acttatctat aattacggtc tcgcttatac 360
 tttgcaacga ggaagatgat ggacgggtta tcatgatga ataata 405

<210> 7471
 <211> 103
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A3

<400> 7471

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<210> 7472

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A4

<400> 7472

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taatgttgaa agcaatatta tccaaacttt tacaccgaaa gaacacataa aagagtcctt 120
ccggaacact ccagaatcgt caaaataagg aggtacgtga tacggtaagt aaacggactc 180
caaaaaatct gcaaaaatat tttttatcga tcttggtata ttttaaaatt ttggaaataa 240
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tgtacttgcc ctgcaagatt aaaaatctac ataaacttac caaacatggt aaccaccata 420
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<210> 7473

<211> 378

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A5

<400> 7473

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tttgatcaac aactggggat cctgagttga atatgatatc aaatccggtg aattgggtaca 180
gtttcgggcc tggatagaag ctgtagtgat gccagattgg aaggcgggag agtttgaagg 240
taaattcaac gatgaatttg ctcggggtaa tagcaacttg caagaagatg gagcaaggcc 300
tttgaatatc tcaaataaga aactgaaaca tgggattaac actgaagaga acccgcaagg 360

tgtcgtgtct acaacaac

378

<210> 7474

<211> 374

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A6

<400> 7474

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aaacttttaa accgaagtca catttatcag attccttccg gaacactcca gaggcgtcag 120

gataatgagg tacgtgtgac cggttttaca ttcggggccag aaaatctgtc tttaaacttc 180

ttaccgatct tggcaaattt gaaatctttg gaatatgatt caactctcag accacctttc 240

cctgtatgag cataatagag gagcgcaagc catgctgtct agtcgcgta aagtaacttc 300

tggatcatcag cgatatgcc tgaatggcaa tgttcttgca gctgtatgca ctgaaacatt 360

gccccacttg actc 374

<210> 7475

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-A7

<400> 7475

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cgtcgtccaa cgagaaggac atcgaggaga tcaacgtgga ggatgacggg agtgctcgcca 120

tcgcggatgc ctccgtgggc gtagtcacca aggaggatga cagtatcatc tcggccgatg 180

ctccggcgat agagaaggac cagatcgaca cgcttcgtgcc tgctccggca gccaaaggcca 240

acgatgatgc cgggtgccacc ttcttggtg ccccggtggc cgggtgatgat ggcagtgctt 300

ccttcgttgc tgcgccggcg gccaaaggagg acgaacttgt atccatctcg tctgctccgt 360

tggcgaggga gattganggt atcatcatgg cggctgtctc ggtcgtgac gatgttgatg 420

ttgcaccttc ccggacgctc cggtggcc 448

<210> 7476
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A8

 <400> 7476

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 tgaatcggac gtggaacaaa acgctgacaa tcaaattgcca gatgaccctt atgagggtcat 180
 atcaatcttc atggatgaat tcagtcgcac gagaaggaaac atcattggcc atgtctctgg 240
 gtggttggtg agcgacagcc gcgaagataa gatcgatgat tttgtccagg aaatggatat 300
 gacccgcttc tggacactag aaaggagaga agggatcgcc gaggtcctcc tcaagaatgt 360
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<210> 7477
 <211> 412
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A9

 <400> 7477

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 acgtgcatg tgcgcgcggc tggagggagt tagctgcatg ctacctatat ggttggacgg 180
 gtcattgctag tgcattgcaag gcgcagcccg gcgggtcacg tggatcatgca tggatatgga 240
 tcgtgcatct aatggttagc ttaatgcgtg agttatttgc cgagtgtgca cgtcgtgtgg 300
 tgtgtgtgca ccgtataag aaaccctccg tctatgtact gctcgagctg aaccggtgtg 360
 taaccatgta accactgtta ggaagaaaag gattggggcg ttcattgctcc cg 412

<210> 7478
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-B1

<400> 7478

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tgtacactct gaaagggggc gtgtccaact tactcaagac caaaggagcg ctgagtgggt 180
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ggggcggtgc tacttgtgcg ggtccgangt ggaggagctg angcaacgca actgcgccag 360
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<210> 7479

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B11

<400> 7479

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gggagatcag cttctccaac ctctccggct tcaagtattt agttttcatt aacgctgtca 180
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attggctcat tttcctcctg gatcaggcgg cggcgtacct gctggtgaca tctgtgctcg 300
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ttttcccc 369

<210> 7480

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B12

<400> 7480

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aagtgaaccc gacgcactac cgggagccaa ggttttacac caaggtgttt aaggaatgcc 180
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gagcttatgt gaagagcaag aagaaccaga accagatatg ttggctatgg gagaagggtca 300
agtgcacaga agacaaaggc tttcagagat tcctggacaa tgtgcagtac aaatccactg 360
gaatcctgcg ttatgagcgc gtgtttgggg aaggttatgt cagcaccggt ggattcgaga 420
ccacaaaaga atttgtggac aagctgga 448

<210> 7481
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B2

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gtacgtgctg tattcctgaa cttgtactgt gacgagcg 278

<210> 7482
<211> 305
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B3

<400> 7482
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tgccgcgcaa ctttcgccgg taccatacac ccaccattac cttcctcaac acagccacca 180
tacctaccta ttatggcatt tccatagcca ttctgagata tatttccatg caactttcca 240
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305

<210> 7483
<211> 477
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-025-Q1-E1-B6

<400> 7483

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<210> 7484
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B9

<400> 7484

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ggcgacggct aaacgacgat ggaacgggca gggtaagggg gaattgatac gtctccaacg 180
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<210> 7485
 <211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-C1

<400> 7485

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 cgcaaatgaa ccgcaacggg gacccgaact cgcgcatgtc tcgcacagca ccaagtgcg 300
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 aacaca 366

<210> 7486
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C12

<400> 7486

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<210> 7487

<211> 313
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C4

 <400> 7487

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<210> 7488
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C6

 <400> 7488

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 cttagtttct ttttgagctt tcatacactt atagctctag tgcacccggt gcacggcaat 240
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 gttgatgtga gagtcgttaa tagcatggta atttggcct tctttcttga tctctcatgc 360
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<210> 7489
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C7

<400> 7489

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accatgggaa caacacagac atgctctcct tgctcgtctt caaagcggct accaacgacc  180
caacaggcgt cctgcgatca tggaacagaa gcgtccgcca ctgcgactgg acgggtgtca  240
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caggggaagc caccaagctt ccgacaactc gattttcgag aacatgaact aagggggaac  360
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<210> 7490

<211> 246

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-C8

<400> 7490

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tggattcctg tccgtgactg gtagtcatca agcgatacgt ttgcattgac ggtggccact  120
tcagcctgac caaagacata acttttgaat gacttcacct ttgtcatggt tgtaaattaa  180
atacgaagtt gcttgcacta tgtagcgctt ctgtgaatta gaatagtacc gtctgtacgg  240
ttgtttt                                           246
    
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<210> 7491

<211> 304

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D2

<400> 7491

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gcataaggtc ttcaccttca gcattcagta agagtgttac ggcttgcaat ttagttccag  180
    
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atcagctgcc ctgccaacac tagcaacaaa agcaaacagg gctgcaaacc cttaacgggt 240
 cgatgcacgg actaaacatt tctccgtaaa tgctgtgtga ctggtttttg ctggactctg 300
 ggga 304

<210> 7492
 <211> 286
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-D3

<400> 7492

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 catggagaag aagttcgaaa caaagctcaa taacaagttt taatgaattg ctgcgcgcgc 180
 ttccaccacc accaccggct ggccctaacg canctctaca acaacaaaca acaacatcaa 240
 caaacaacgt cgtttttcca aatcaagtgg gaacaagcac aacgtg 286

<210> 7493
 <211> 83
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D4

<400> 7493

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 gtccttaaag acttattcca cat 83

<210> 7494
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D7

<400> 7494

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actggatcaa cattataaag tatagtttcc tctttaagta gaactagttc tttaatttct 180
tctttaatgg gtgggtgata tttaaaccac ttctccttat ggagttcaat atgggtagca 240
aatgattcac aaaaggagggc tactatctca gagtcaagtc catatttagt gctaaacttt 300
tgaaaagcat cagtatcaat aagagattta acacaatcat acttaagttt aatacctgac 360
tctttacctt cgtcgagttc ccaatcttca gagttgcgtt taattctttc caaaagattc 420
caccggaatt caatagtct 439

<210> 7495

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E10

<400> 7495

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ggcatatttt catcagggag tcttgcttcc accagtctgg ggattccaag aggaaagtga 120
acccgacgca ctaccgggag ccaaggtttt acaccaaggt gtttaaggaa tgccactcct 180
atgaccaaga tgggaattcc tttagacttt ctctggtaac ttccaagtgc attggagctt 240
atgtgaagag caagaagaac cagaaccaga tatgttggct atgggagaag gtcaagtgca 300
cagaagacaa aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatcc 360
tgcgttatga gcgcgtgttt ggggaggggt atgtcagcaa cggtggattc gagaccacaa 420
aagaatttgt ggacaagctg ga 442

<210> 7496

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E11

<400> 7496

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gcctgcacag ctgcacagcc ggccgccgag gatagagcag gcagtcgcgc cggcgcttgt 120
ttaagcggct ggagcatgaa gagcacatat tgaataagca cgactgtcat tggatggaca 180

tccaacagtc actgcttgtg tgtcaacatt tttttaogac aacctcaagt ctgtggtaaa 240
cagcatacat tccatctgcc attatttcta ataatttaca tcccatttgc taattcgtat 300
gggttttttg gagcccagat tctttttgtt agcattacaa cccatattgt ggcacacggt 360
aaaccactat acgaaatttt gcataattca gtgctgtcca aactattttt aatcccacaa 420
tttcgagtca gattcagact gatttta 447

<210> 7497
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E2

<400> 7497

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ttagtcaata gaagcttaat tatagaaaat tgtggaaaca aagcccatgt tctcatctgt 120
aagtggctag ttcacaataa tgtcatattc ctaggaaaat tataaatcac tatgggggta 180
agcgggttagg cacaattttc taaaaatgta ttattttcaa taaacgaaca taccaatcca 240
caaatagtgg acgcaccaac agaagatttg atgccagcac agtaactcat gagtgaacct 300
gttataacaa tttcgacaat acaaagattc ggctatcaaa tgaatactac aaaaattaca 360
aatattattc gttatccaaa agggaaaagt aaaagatgaa gaaacaccta cct 413

<210> 7498
<211> 374
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-025-Q1-E1-E3

<400> 7498

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ggctacttat tatgagtttt gtgaaatttg catcatgttt gtatatggta gaagtgtggc 180
agtggatgat gaattgaatt gactaagtta gagtgaagtg tttggttgaa gattgcggta 240

ttgcatttgc cagaancaaa ntaactcatg aatgaacctg ttataacaat ttcaacaata 300
 caaacattcc gctagcactt ttctcgagca aaaatacaaa atattactcg ttaaccaaca 360
 ggggaaaagt caaa 374

<210> 7499
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-E4
 <400> 7499

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 gtttttgctt attcacatga tgtttaccat tcttagaatg tcatttttctt ttgctttgat 180
 tgatgtttga ataataacc aagatatgaa attattaaat gttagagagt cttcacatag 240
 ctaaataatt atttaactac tcattgatct tcacttatat ctttcggagt agtttgtcat 300
 tgctctagtg cttcacttat atcttttttag agcacggtgg tggttttatt ttgtagaaat 360
 agatgaactc tcatgggtca cttatatcaa tttgagagta tttagaacag ca 412

<210> 7500
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-E6
 <400> 7500

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 acagcaatca cgctgtagtt tcaagacgaa cttcttttctt aaaatcgagc aggagcaatc 180
 gccgaaccac gcccgtgcc tcagtccgac cacggcccgcc tcctcgattt cgcaaggtga 240
 acatgcgcac gatgggtttg ggattgggag cgccgttctt cctcctcgtc ctctctttgc 300
 tggccgctgg cactggagct gtgccgcagg acaagatggg tcgcatgaat tatgttcttc 360
 tcgatctcaa tacaatcgag atccgcccaa atgacaagga ggaaattgcc tctagcaaaa 420

ttcctgt 427

<210> 7501
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E7

<400> 7501

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ttccgtaacc cctcccgaag gtcaactgaa ccttgtaagt agatatccgg aaccaaccca 120
aatccttttc ctttttttcg gaaaaaccaa caagagcaat ctccgaaaca agcccgatga 180
gccaatctcg aacaaagagc acacaaaaag gggccgctca agaatactaa ctcttaatga 240
ctcgtaaattg gaatgtcata cctcttc 267

<210> 7502
<211> 262
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-025-Q1-E1-E8

<400> 7502

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tcttccggag taccgggaca attgctaaac cataataaca aactgggaag aattcaacaa 120
caggctccag gccaaaccaga gcaacacggt gctgtgaatt aagaggcgag caagaaggac 180
ctgaagagcc ggggcttggt cctcgtccca atctcgtgca cgtcccactt tggcggggac 240
aacgctgctg actactgggc cc 262

<210> 7503
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E9

<400> 7503

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cagaagaccg ttctgtcacg tatacacaac gtatcggcat ctgtctatgt cccactcaag 120
catgataatt tgcacaatca gaactcaatg tctggatcac aggcacagga tcgcgagatt 180
ggcgtccgg cagaagacaa atacggacag agatacacgt cacctctcaa tgaagcagac 240
aaatagagta ataagtgaac taacgcgcaa ctaaaacgtc tagctcgagt ctcttacagg 300
ttggagctaa attcatctat atggaaatat tgtagcttcg agaactttcg taggagtctc 360
ggtagcataa atactatgaa agtacaaatg gtagaataat gttccaggat tggtttagat 420
acatcgagat gttaagtgga tcgatttc 448

<210> 7504
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-F1

<400> 7504

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attgagtaac tgagtgggtgt gaatgcatgt ctcatacaac ccttgagaaa tatgacataa 120
tgcaatgtat ctcaagttaa aattcccaag tcatgtgata tatcaagatg aaaaatggta 180
tggggcctta ctaatgcaa cctaaaatgc atacaagtct caagtcaatc tattgatcct 240
aagctagaac atttcatata taagataaaa gatcaagtgc caatgtttcc cttcgcatgt 300
tacaaaatgt ta 312

<210> 7505
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-F10

<400> 7505

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tattgaatac tccaccatctt gagggtagat atgttcctga taggtatctt acttgggagt 120
tagatactga acaacgattt acatgtttac aatatcctga ggagagacga gttgctgctg 180
ctgtttgtgc tttcactagt tttgcatgtg tatgggtggtc tgaacattgc agattatctc 240

ctattcgacc tatctgggct gcttttgaaa gttctatgcg taccattcg gttcaacata 300
 ttttcaacgt gcattgcttc aaaatttgca gcgtttaagt acaagggaaa acttccggtc 360
 atcaatatta tc 372

<210> 7506
 <211> 256
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-F4

<400> 7506

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 aagangaaag tgaacccgac gcactaccgg gagccgagggt tctacaccaa ggtgtttaag 180
 gaatgccact cctaattgaca anangngaatt tcctttgagc tttctctggt aacttcaaag 240
 tgcattggag cttatg 256

<210> 7507
 <211> 351
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-F5

<400> 7507

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 ggattgcagg ctgcactgct gacctctgcc gcactgactg cggagggtcaa tactttgaag 180
 caaatctcg agcgggtcaa gaacgagctc ggccgtgcc aagaagcagct cgaggacaag 240
 gaaggtagt aacaccttat taaaattgta ccttacataa aaggattttg gttgaagaat 300
 gacaaggata acgtgggaat tgcangggcc actaacgagg tggtgaccct g 351

<210> 7508
 <211> 409

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-F6

 <400> 7508

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 acttcagcac cgccagctca tcgcgatcac cgacgcggct agtgcgcttg tgaaagccct 120
 tgcgtgctgg tgagaactcc tttgacggct ccgcagccca tcaagacatc tctattgtgg 180
 atgtcgcgta acggcgagac ctctctagtt cttttgcgac cttgggtcatt gtccttggg 240
 tatatgtcat ccaaaactcc tcctatcggc catggcgga tgacttgaca agtaagaact 300
 attttgtag tgattaagat acgaaacgtt gagttaattt ctagtgggta attttaaac 360
 ccggtgctaa gtgttaacat gtttaagttt gattcgtgtg aacaaattt 409

<210> 7509
 <211> 316
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-G1

 <400> 7509

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 gatcacgac gtcgcgcang agggctgctt tccatgcgac acgcangagt ggaggtgaaa 180
 gcaggcaggc tagtaaacia acaaagagcc aaagaagaag ctgatggctc ctcgttttgg 240
 ccgggctatg catcacagca caaggccaca ccacaccaga gatgattagt ttagtctaac 300
 agttaacacc agatga 316

<210> 7510
 <211> 452
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-G11

 <400> 7510

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 tggagtacat cgacgccacc aaccggcgcg ggcacctcac ctacgagctc ggcgagaatg 180
 agttcgccga cctcaccag gaggagtcc tagccaggta cgcgtcgctc tacgatgggg 240
 tcggtgatga tactggcatc acgttgctg tggggcgtgg cgacgccgag ctgtggtcgt 300
 ccggcgccga caatgatagc tccttgagg ctccgcctcc cagctgggac tggagatcca 360
 agggcgccgt cacaccggtc aagtcccaat gcgcaggatg cgctagctgc tgggcgttcg 420
 tgacggttgc gacgatcgag actctgaact gg 452

<210> 7511
 <211> 86
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-G2
 <400> 7511

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 acggtttgcc tgagtttgct ccatat 86

<210> 7512
 <211> 220
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-G3
 <400> 7512

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 tccggtatta gctctcttac agaacgtttc gattgaatgc cttgcctggt ggttcgtaac 180
 cgaccatcat tacttcgtat gatcttcgct attactggct 220

<210> 7513
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G5

<400> 7513

cggggggaat gtatggttg gttttatttg tgtatttggc ggaatttggc atattttaac 60
caaacccttc gcatgggctc gccgtgcatt tgtatggtct ggagaagctt acttgtctta 120
tagtttagct gctttatctg tctttggttt tatcgcttgt tgttttgtat ggttcaataa 180
tacagcttat ccgagtgagt tttatggacc caccgggcca gaagcttctc atgctcaagc 240
atttactttt ctagtttagag atcatcgtct tggagctaata gtgggatccg ctcaaggacc 300
cacacgttta agtaaataatc taatgcgttc cccaactggg gaggttatct tttgaggggg 360
aaactatgcg tgtttgggac cttcgtgctc catggttaca agctctaagg ggcccc 416

<210> 7514

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G6

<400> 7514

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attgaaacta taacgcctga gactatccaa tagaagaaag agccacaagc aagccatagc 120
agcatccttt ttcttcgctt tcttcaacaa tttatctacc tcaactcctca tcataactca 180
aatgctcgtc ttgactctat catatcttcc ttgcatatgc atcacatcat aatttcaagc 240
tttatcagat ggagtgaaga gtacactttt agtggtcctc ttagtgagtt ggtttatgtc 300
aaacaacctc ccggttttga aaaaccccca tcacatttaa caactccatg aagcgctcta 360
tggactcaaa caagcatctg gtgcttggtg tgatcacctt aagacgtatc taaacgagaa 420
gggggt 426

<210> 7515

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G7

<400> 7515

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 ctgagactat ccaatagaag aaagagccac aagcaagcca tagcagcatc ctttttcctc 120
 gcgttcatca acaatttate tacctcaatc ctcagcataa ctcaaagtct cctcttgact 180
 ctatcatatc ttccttgcac atgcatcaca tcataatttc aagctttatc agatggagtg 240
 aagagtacac ttttagtggg cctcttagtg agttgggtta tgtcacacaa cctcccgggt 300
 ttgaaaaacc gcgatacatt taccaactcc atgaggcgct ccatggggccc aaacaagcat 360

<210> 7516
 <211> 134
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H1

<400> 7516

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 tccttcgaaa tttgggaaaa taagcaatca aatttaacct ggcaactaaa ttccaatcca 120
 atttgaatc ccaa 134

<210> 7517
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H10

<400> 7517

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 attcttatct tttatgtgag tatcattgaa atcatcatgc ctagctaggg gcgtcaaacg 180
 atagcgcttg ttgggaggca gccaacttt atttttgttc cttgattttt gctcctgttt 240
 agtagtaaata attttaccta gcctctgttt agatgtgggt ttatactttt aattagtgtc 300
 tgtgccaaagt agaacccttg ggaagacttg ggaaaagtct ttgcgatcat gctgtaaaaa 360
 aatagaaact ttagcgctct cgagaattgc tgccattttt tattggagag tgctattta 419

<210> 7518

<211> 324
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-H2

<400> 7518

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 atcatagaag atgtccaaga taatataatt gtatgtgaaa agttccctcc ctatactaata 180
 cattcaagaa tttcttgtat gatcaatatt gtcattgtca agcttcaaaa gatttcactt 240
 tctaaaccca atgtgaagcc aatactaagc atgatatgaa catataattt caaattcatg 300
 atattcaatt cattcaacaa tttt 324

<210> 7519
 <211> 333
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-H4

<400> 7519

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 aaaatagagt gaagttcaag tagacatgcc gagaagttca agttcttcac gcggcgcat 120
 ttcgaagaat ttgttttgcg ataaaggcag aacgaatgat ctgccattt ttgaaattac 180
 ttgaaaacga ccaggaatca gagaaaacca tcaacatgaa aaagtttcgc attttccgta 240
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 aatatgtttt taaccatttt cagaactaac ata 333

<210> 7520
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-H5

<400> 7520

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actacattac acaaagaagt gaaacgttca tagctgatac tctcattgaa tcggaggtgg 120
aacaaaacgc tgacaatcaa atgccagatg acccttatga ggtcatatca atcttcatgg 180
atgatttcag tcgcacgaaa aggaacatca ttggccatgt ctctgggtgg ttgttgagcg 240
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cactagaaaag gagagaaggg atcgccgagg tcctcctcaa gaatgtggac attaaaacta 360
agttccactg ccctgagaaa tatgaaaacg aggaacgtct tgctgatcac aaggcacagt 420
gtagcttcag gcctgtcact tggccgaacg a 451

<210> 7521

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H6

<400> 7521

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ccccacccta tgtgggggttc aacaaggcga ccccttctcc ccgttcctat tcaacatggc 120
cgtggacgcc cttgccacca tcctggataa ggcgaaggct gctagccata ttcgtggaat 180
cacccccacc ttgccggagg gtccgggatt tcctcctct agtatgccga cgacaccatc 240
atcatggctg aaggctcgga ggcgaacatt tccaacctca agttcctcct cctctacttc 300
caacaaatgt ctggccttaa gattaacttt gacaagagtg atgttatggc gatgggcatg 360
aggagtgtct agccattgcc aaccggctta actgccgcct gggctccttt cccatgacct 420
ac 422

<210> 7522

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H7

<400> 7522

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atggtgcggc atgtcttta cctaaatggc atcaaaggag caattgctgc ggctcgcaaag 120

ttgcctgata ttgctgttca agctgatgtt gttagtactc tcaagggaaa acttggctctt 180
 ttcaacctag atattttctc aagccttctg cctgttcttg ccgggttact gaacagcaaa 240
 actgaaaggc atgctattgt tgctttggag atgttattgg atcttataaa gatttttggga 300
 ccggttattc attcaacatt gtcaagtagt tcacctgttg gagtagatct tcaagctgaa 360
 cagaggttgc agcgttgac ccggtgtttt aaccatttgc aaaagattgt gcaagctcta 420
 caccggtga tga 433

<210> 7523
 <211> 325
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-H8
 <400> 7523

ccgcatttat catggtagtc aatacgcgga tcgccaagct aaagatagaa cgggatcgac 60
 atagtatcat aggcagcaga tgagtaatcg ctgaggaccc gaacttacat gatatcgcg 120
 tgcaatctga gattgctagt actcacagt taggattagc cttgtcagcc tacagagttt 180
 cgcattggcat ccgcctattc ttggggagac acatggaacc acagcttatg cagatagcac 240
 tgttgcctag gctatgggtat ggccctgtaa agcaactcct cgtacggcta gtccatcagc 300
 aattttacgt ggttcaactg ttgga 325

<210> 7524
 <211> 211
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-A11
 <400> 7524

gggcgacagt ataatcacia gaaatatata tataggataa taaggtgggtg tattgccgcc 60
 atgtccgtta acctgaggtt ggttccacca aaaaaaacccg ttacccccgc caaaaatttt 120
 ccgacccaag ggaaaataat aacaacggga aaaccacca aaatcaaacc ggcttgtgaa 180
 ataaatgggtt gcgccccggt tttttgtcgc c 211

<210> 7525
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-A2

<400> 7525

ggtcgtaatt acgggtccac gggcatcacg gccaaagagac cgtggaacgg agacggcgtc 60
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 cccttcgccc ggggcccggg tttttacaaa ttaagggtccc cgtcggtcct ggaagccctg 180
 cctttccgct ggaaccgca catacacgc tgcttaaagg tgagcgacgg ccagctgcgc 240
 tacgttcaga tccatggtgc atctgagaag ccgggtgtca gcatctggac gctgtcatcc 300
 agtgattcgt caaaggcgac atggggaagc ccgaccagcc tccccttga tgtggttttg 360
 ggaagacagc aactacagt atgatccccg gttcgtccgg gggtcgtccc tgctttgcgc 420
 ctggtccacc ccatg 435

<210> 7526
 <211> 111
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-A3

<400> 7526

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 ggggttgtgg cagtgtcccg gngagttgag ctcccagagt gttgtcgtca t 111

<210> 7527
 <211> 462
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-A5

<400> 7527

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acagtagcaa attgatgcct gtcgtgtcca gttgagcaga tgagagatca aatgagcatt 180
 tcccgtggcc tctataacaa ctagcaagta aggattcatc gacttttact tctttttgtg 240
 gatccaaacc atgatgtctt tattgtatac taacatgatt tttctgccgt agatgactcc 300
 accgtgcttg atgtaccgga cacattgctt gatcacactc attgtattta ctttttccct 360
 aatgctttat tatgtttttc ttgagaccaa gctaagtcac ttaagctgat gttttgccag 420
 atcgtctttt ggtaaatcat ctcatgcaca tatcaacaaa aa 462

<210> 7528
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-A6

<400> 7528

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 tatcattcgt gaggttagtt ccgggtcagg cacaccgctc atgccaaagc ggaagttcga 120
 gacgtacata ttcacgtctt tcaacgagga cctcaagccc gggcccgtgg ccgagcgcaa 180
 tttcgggatg ttccagccag acttcacgcc gatgtatgac attggcatca tgaaagatcc 240
 ggtcaaaaaca acatcgggcg cagcgctcggc cgtcccagcg gtgccgcaga aagtgcacgc 300
 aatgcctatg gtcgctgctg ctaatgcctt ggaagctgga gtgcctacaa aggccaacga 360
 ctccaacaac gcctaggcat ccacgcaagc atcgtcgcca ggcaacaaat ccttgaccga 420
 tgac 424

<210> 7529
 <211> 340
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-A7

<400> 7529

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 aggacaagat cagcggcgac ggccacggcg acggcaagaa ggacggcgac cacaaggaga 120
 agaaggacaa gaagaagaag aaggacaaga agcacggcga gggccacaag gacgacgacg 180

accaccacaa caccatcatc gcatcccat agcattctac cattttcctc ggagagaagt 240
 agccagaaac agcagcgcca tggccggcat catgcacaag atcgaggaga agctccacat 300
 ggggtggcggc agcgacgagc acaagaagga cgatgagcac 340

<210> 7530
 <211> 313
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-A8
 <400> 7530

cggggagAAC agaaaggact gtgagcacia ggagggcatg atggagaata tcaatgataa 60
 gatcagcggc gacggccact gcgacggcaa taaggacggc gaccataagg acatgaatga 120
 caagacgatt aagaaggaca ctaagcacgg cgaggggtcac aaggacgact atgaccacca 180
 caccaccatc atctcatccc attatcattc taccattttc ctcggcgtga agtaaccata 240
 atcagcagcg ccatggccgg catcatgcac atgatcgagg agaagctcca catgggtggc 300
 ggcagcgacg atc 313

<210> 7531
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-A9
 <400> 7531

gggtctgcaa ctatacagct tcgtatgtag ttgcagatc actacgtcat tctgtacatg 60
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 ttgctactta gagtcactca gataggtgtc aaagcttgca tcgacgcaac tctttacgtc 180
 atcctcatta tcagctccat atccgagaag catatccgta ttctctaat gatagttttg 240
 accgctatct ggtgatctac tccttgataa cctttgtatc ctcttgccag atatgtatca 300
 gggcacacat caagtgcggt acttataata ccgtagagcc gatgtctgaa gcataaggga 360
 ctaccttcgt 370

<210> 7532

<211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-B1

 <400> 7532

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 gcattccagt ggagaaagtc tcgacagacg aatctgataa acttcttaag atggaagaga 120
 cattgcataa gcgtgtcatc ggccaagatg aggctgtgaa agcaataagc cggtccgttc 180
 gccgtgctcg tgtgggcctc aagagcccca acagaccaat tgcgagcttc atttttgcag 240
 gtccccactgg tgttgggaaa tcagagcttg caaagacgct ggcatcatat tacttcggct 300
 ctgaagaagc catgatccgg ctggatatga gtgagttcat ggagaggcac actgtgtcca 360
 agttga 366

<210> 7533
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-B10

 <400> 7533

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 catgcgatta gataatcagt aacacaaacc cacaaacggc aacctgccct tgattagata 120
 atgccatata aaatccgatg gatggaacaa caaggtagct gcagctgcat gcatgtaaaa 180
 ttgagtccat atccacgagt aaaggctgct gcatgcatat ggcagcaagc cagccagcca 240
 gtgtacgtgc agctgcagcg aggcaaaggg cctggatggc tccggcactc ttcggccttc 300
 ccgaagtcca agatcacttt tcgggtcaaca gtaagttgaa gttactatth tcagcccagc 360
 tgaccacttt tccgccgatt ggaggctaaa aagctc 396

<210> 7534
 <211> 312
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-B11

<400> 7534

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tacatgcggt catggactgg caccattatt ggccctcaca atactgtcca tgagggtcgc 120
atctaccacc tgaagctggt ctgtgacaag gactaccccg agaaggcacc atctgttaga 180
tttcattcaa gaatcaacat ggcttgtggt aatcacgaga ccggggcggt tgacccgaag 240
aagttcagtg tgctggcgaa ctggcagcga gagtacacta tggaacatgt cttgaccag 300
ctgaagaaag at 312

<210> 7535

<211> 392

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-B12

<400> 7535

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tagtggcttc tctcaagata gcataactat tacgggtgggt gaacanatta ctgccgagca 120
attgatagan aagcacgtag ttatgatgat atctaaggca atgatcatga atataggcat 180
cacgtccgtg acanagtaga canaacgatt ctgcatctac tactattact ccacacatcg 240
accgctatcc agcatgcac tagagtatta agttcataag aacggagtaa cgcattagggc 300
aagatgacat aatgtaaaag gataaactca ngcaatatga tataaacccc atctttttat 360
cctcgattgc aacaatacaa tacgtgttgt tt 392

<210> 7536

<211> 336

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-B2

<400> 7536

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tgataagaat ttgcagaaaa acccaagtgc ctcaattata acctttgggc ctgaaaattt 120
tggcccaatg cttcaattat atgtttttaga gcacgatggg ggtgtcttaa ttttgaagaa 180

attgctagtc tctcatgatt cacttatatc attttgagag tcttttagaa cagcatggta 240
 tttgcttttg ttacaaagt ggctcctagaa tgatgagcat ccaagttggg tataataaaa 300
 actatcataa ggaagtaa at tggatgctat gattaa 336

<210> 7537
 <211> 360
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B3
 <400> 7537

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 attattttca gggatggagt tagcgaaagc cagtttactc aagtgataaa cattgagctt 120
 gagcagatca ttgagggcatg caagtgcctt gacgacaagt gggagcccaa gttcacggcc 180
 attgtcgctc agaaaaacat cataccaggt tttccagac aaactcgcca gaaaatgttc 240
 ctctggcac tatggtggat aaacaagtgt gccatcccaa gaactttgac ttctacatgt 300
 gcgcgcatgc tgggatgatt ggcacgtcga ggccaacgca ttaccatgtt ctgcatgatg 360

<210> 7538
 <211> 328
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B4
 <400> 7538

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 ttaattcaca taaacgtgat tttgatcgta ttctttttga tctggattgg taaaacatt 120
 tctaaggtct tccaaatttg gaaaaatttt tggagttcca gaagtatgcg tttgatgcaa 180
 atggcaaaaa acggtccggt tttgacaagg tccccctttc aaggggtggg tgcctaattt 240
 gaagcaacca aggctaataa aataatttat aaacataga taagttggga tacaatatgg 300
 ttaacacaca aataaataaa gaaagagt 328

<210> 7539
 <211> 457

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B5
 <400> 7539

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tctcatgttg atcgtatctt ccatacgact cgtgttcgac ctttcggtct ccgtgttccg   120
aggccatgtc tgcacatgct aggcctcgtc agttaaccct aagtgttttt gctgtgtaaa   180
actgtcttac acccgttgta tgtgaacgta agaatccatc acacccgatc atcatgtggt   240
gcttagaagc gacgaactgt agcaacgggt cacagttagg ggagaacact tcttgaaatt   300
tttgtaaggg atcatcttat ttactactgt cgtcctaagt aaacaagatg cataaacata   360
ataaacatca catgcaatta tatagttgtg acatgatatg gccaatatca tatagctcca   420
ttgatcttca tcttcggggc tcctgatca tcttgtc                               457

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<210> 7540
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B6
 <400> 7540

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cgtgagttgg tggatgaatga agggcctgtt acaatagagg gtaagccgat ggatgtccat   120
cccacaatgg aagatggcaa tgtgcaggat gttgccgtgg aggcagaaaa tactactcgg   180
gcttcataaa tcagaagagt ggatgcaaga tcagcaattg gtacaaaaat tctctgtgct   240
tggtgtccat atgggtgaag aataaagaac ttagaggtgg ttgtagaatg tgacgaacag   300
cagtgtgctg tgcgcctctg cactcgtagc taagtgagtg accatgttgt aagatggatt   360
tctggacaaa tcaggtgtaa agatgtaaga ttcccaaaca atctgtacgt atatatatac   420
ccagact                                           427

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<210> 7541
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-B7

<400> 7541

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cctgctgatg ttgacgcaga tctactgaag gatgatgatg atgctcagct actacagcaa 120
gcactcgcta tgtcaatgga tgaggggtgct tcaggagctg caaccgtggc tgatgctgct 180
atggcagaag ctgctgcata tgaccaggat ttggcattgg ctcttcaaatt gtctgtccat 240
gatgcagatg cggctgggtca atctgatatg agcaaagtgt ttgaagacag atcattttgtg 300
acatccatcc ttaattcgct tcctgggtgtt gggcccaatg acccatctgt gacagattca 360
ctggcatctt tgc 373

<210> 7542

<211> 312

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-B8

<400> 7542

ccacggggag ccataaaaaa catgctcagt ctccgctggc cgggtgtccaa gagcaaccca 60
agccaagaac caacctgccg ggggcaatgg aaacaattta agttaatggg aaattgtggg 120
cgctcacagg gtcaagggtta cctgcacaat gctagccacg tacttactta cagtgcattg 180
gccatacata caacacatgg acatttacac aaatggcaca tgtgagacac tcccgggggc 240
aggcacccta aactatgtgt acaatttacc tgtgggggctt acgtgctttt atgaggaggt 300
aaaccctgt gt 312

<210> 7543

<211> 434

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-B9

<400> 7543

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aatgcacccc aaggtaatat taaaggacaa ccaaaagcct aagcttgagg atgcccaga 120
 angcatcccc tctttcgtct ccgttcacg gtaactttac atggagctat aattttattc 180
 accacatgat atgtgttttg cttggagcgt ctttttttgc ttgttggttg aataatatcc 240
 caaaatctga aattcttaaa tgtagagag tcttcgcaa gttacataat tatttagcta 300
 ctcatgggtc ttcacttata tctttcggag tagtttggtg tttgctctag tgcttcactt 360
 atatatTTTT agagcacgac ggtgggttta ttttgaagaa atagatgaac tatcgtgctt 420
 cacttatatt attt 434

<210> 7544
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-C1
 <400> 7544

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 caaagagatg aggattgaat aaaatcgtgt cacgaaggct cgggcacaag tgctgaagcg 180
 ccaatttcac aagttgcaga tggagaaaac tgaatcgggtg aacgactatg ccatgcgtct 240
 gactactttg gtgggagaga tccacgcgct tggtgcaaaag ctcgacgaga ccgagattgt 300
 ggagaagttt ttcagttcgg tgactgataa attcacgtac atcatcggca cgctcgagca 360
 gctttacgac atcgacgaca tgaccat 387

<210> 7545
 <211> 168
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-C10
 <400> 7545

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 caacgaagcc aaccggggac cgttcgtgcc ccgcgccgtg ctcaaggacc tccaaccccg 120
 gaacatggac tccgtgcgct ccggggccct ccggcaaatt ttccgccc 168

<210> 7546
 <211> 278
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-C12

 <400> 7546

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cataacaaca aaaaaatggc aaaaccttca aggcaaaaaa cataaaaaggc gggtccaaac 120
caaaatggta aatttaaggc ccccccttca acaacaacc atcaaccaat ggcttgccca 180
aaacaatgat tgcctcaaac taacaaaatt cccgggggga gttttgtttg caattatttt 240
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<210> 7547
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-C2

 <400> 7547

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tggtancgga agaacaagat gtcataattct gaataatact gaaggtactt tcagtaaag 180
ttctgcaa atagtcatcc agaacgccag gatgtgtggg gacaaaatgt actctattgc 240
ttcacatggg aatggcttca gttccgctac tgtcacgagc ctgaggttct gatcctacac 300
ctcggtgct cgccagaag ctaagtcata ccaatttatg ttagttcttg agattttttt 360
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<210> 7548
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-C4

<400> 7548

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ttggtgggat ggggtgatct tattgtgaaa atgttctgat cctatgggtg aagggtgaaa 120
gggtgtgtat tatattagtc tttgcttttt agtttaccac aatcatcctt tctgtacaca 180
ccttttggga gaagcctatt tgattagaat ttgctacaat actctatatg cttcacttat 240
atcttttgag cttgatagtt ttttctctag tgcttcactt atatttttta gagcacgggtg 300
gtgtcttaat tttgaagaaa ttgctagtct ctcatgctta acttatatta ttttgggagt 360
cttttagaac agcatgggat ttgctatggg cataaagttt ggtccaaaat gatgagcatc 420
caagtgggta taataaaaac tatc 444

<210> 7549

<211> 277

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-C8

<400> 7549

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ctggatagaa catctgacga ctcatctcag gttgaactgc cgaggagagc aattgtttct 120
tggcctgact gtttagatac aacttacgac gttgctgtct cgcattgtccc tattgtgtct 180
tcattcccg gcaattgtcgt tttcaattag ctgtgatcat cgtttgctct ccttgtctcc 240
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<210> 7550

<211> 392

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-C9

<400> 7550

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tagattttta ggtccctttg ttttaagtga attgggtcaa tctgtcatga ggcgggggtac 120

aggtagaccc acagtacgga atgacaacag tggatctgaa aaatcttggg tacactgacg 180
aaccgttcat cctacgcaat gatgtggcac aagttatcta tgtgaaggac atgtctacca 240
gactgaggaa aagaaaaaat aaggaagcga atacatcata cgatgagcca aagtgccaca 300
tagttctttc aagaaaaagg gacatcctgn gagtggaggg caagacagac atgtctgaag 360
agtatggaat ctttcatgaa attcctccct tc 392

<210> 7551
<211> 370
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-026-Q1-E1-D10

<400> 7551
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gagtgatctt catctgctcg ccataagga aggagagccc ctgcgcaagt acattcagag 120
attcagcagt gtgcagcaca acatcccaaa cgtccaccct gccgcggtga ttagcgcgtt 180
ccatcaaaac gtgcgaaacc gcaggatgcg ggacgaaatg gcgatgtgca agattaagga 240
cgtcagtgag ttatatgcac tggccgacaa gtgtgcacgt gctgaggaag gaaggagacc 300
ccccggagaa aaatgtagga gcgggaggat ctaacattga agatgctccc ccggcaagga 360
aaaaccggcg 370

<210> 7552
<211> 174
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-D11

<400> 7552
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gaaagccgtg tttctgcctg ccgtgtttgt ttcacgtgt ttgtgtctgt ctgtcgtcgt 120
cgtcttcgtg attttgaact ttctctagac tgaattttgt acccgattta aatt 174

<210> 7553

<211> 299
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-D12

 <400> .7553

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 gcgcccctgc tgtgcgccg catcacctg tacaccccca tgaagtacca cgggctgaac 180
 gctcccggga tgcacctcg cgtgctgggc ctgggcgggc tcggtcacgt cgccgtcaag 240
 ttccggaagg ccttcgggat gaacgtgacg gtgatcagct catcgccggg gaagaagca 299

<210> 7554
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-D3

 <400> 7554

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 cggcgaggct ggcgctgac gccgaggagg tcgggtgccc cgacgtcatc cccgcgggtgc 180
 atcggttctt gaaggccacc gtcacgccgt ggctggacgg cagcttccag gggaaatgggt 240
 tcctgtatga tcccaaattg ggcggccttg tcaccaagca ngggctgcan gactccggcg 300
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 ccattgctgt 370

<210> 7555
 <211> 358
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-D4

 <400> 7555

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atccttcgat aaacatggct gcaaaaaggc attatcagtt attgtagacc cggttccgcc 120
tccggttcaa aaaaggcgtc cctacggtag tgatatagtg aaaagttccc atttttatcc 180
tcagcctatg caaaggcagc catttatcat agtgaatggg ctcccagtg aatcaccgcc 240
aatcgaaggg cagtgcgtg cccaactgga aatggacaag tcatgtcaag gcagcanggc 300
tgcaataaat actctcccct ccgagtcac tcggtctcaga ggttctttat cctctgaa 358

<210> 7556
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-D6

<400> 7556

ttcgcgggtc cacgggggaa tgggagccca tgaccgagtc atgggggtca atctggcgg 60
tggacacgcg gcgccccatg cagggacgct tctcgctgcg cagcaccaac gaggccggca 120
agacgctcgt cgccggcgag gtcacccgc tcagactggg atcccaactg agatatacag 180
ctccatcact ccagttcgac taatcttttt tagtcgatcg atcatctgat ctaataccat 240
atatagatcg gaaaatataa tgtgtgtgtg aagacgcac atagcgtgc gtggtgtcgg 300
tgtatgtact ataactgatg aagcaataac cgctctgtga tcgatcgagt tggctcatct 360
tagtgccata cgtagcacgg tgagacgctg cctgtgacct ccggtgatta gtgtcgtcct 420
ccaacgtgta cccagttcca tt 442

<210> 7557
<211> 79
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-D7

<400> 7557

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ctaaatctga gacgctttt 79

<210> 7558

<211> 353
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-E10

<400> 7558

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 tgtcaccgcg gtcggagaag aacctggtgg aggttctcct cggcctccac ggaaatgaag 120
 actttggctt ccccatcacc cgctccacgg tcaaagcatt tatcttgaac atatatgcgg 180
 gtgggacaga cacatctcca tggatatgggt cacggcagag ctgatgatga antcaaaggt 240
 aatcaggaag ctgcaagaaa agatcagggc cggcggtccg cgagatcaat ctccggacga 300
 gcggaagttg catcaagtac cttggcttgg tgatcaagga gacgttcaag ctg 353

<210> 7559
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-E11

<400> 7559

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 aagtgttatc agaaatgaga tatcatgtgt gaagatttat ggctttcaag ccaaattggtc 120
 aatcttatgg ccagattcat ggcatagttt gttcaaata tctcatatta tgcacaaggg 180
 tgcattcttg aaaggcaaac aatgttgtct aaggaggttt tcattttctt tggacaaaaa 240
 attcattttt tatttttcga atgccccaaa tgagtttttt tttgtgaagg acctaccata 300
 tatttgtaac aaaattgggc caaataaatt ttccaaaata ctatgccata tttgattcac 360
 aattgacaaa atagttgggt atcaaaagtt ttgatccacc tctgatgaaa aagacaaaat 420
 tccgccgatt c 431

<210> 7560
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-E3

<400> 7560

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ggcttcatcg acttcagcga gttcatctcc ttctgcaacg ccaaccggg gctcatgaag 120
gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgat ccaggagccg 180
atccatctac gtacggcttc gtatatcaat ttcattgcaac tacctactcc ggtcccgatc 240
cagcctcagc ttcacctgaa gccggcccta attttgtttg atcaattttt tgctactagt 300
agtaactagt gatgatcact gttgcaccat ttantttatt tatatcgta caactt 356

<210> 7561

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-E5

<400> 7561

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tgcccccgga ccagcagcgt ctcatcctcg ctggcaagca gcttgaggat ggccgcaccc 120
ttgctgacta caacatccag gagtccaccc tccacctcgt gctaaggctc cgtggtggta 180
tgcagatttt tgtcaagaca ctgacaggca agaccatcac cttggaggtc gagtccctcg 240
acaccattga caatgtcaag gctaagatct aggacaagga gggcatcccc ccggaccagc 300
agcgtctgat cttcgcgggc aagcagcttg aggatggccg cactcttgct gattacaaca 360
tccagaagga gttccacctc caccttgctc tccgcctctg ttgtggcatg cagatctttg 420
tcaagaccct caccggcaag actatcac 448

<210> 7562

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-E6

<400> 7562

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tgccgggtcc ggcactagcc ctggcactgc tcggtgcttt cggcctcgcc atcgccccgg 120
 ctgttcagtc ggccccacc atcgaggcca tccaagctac atgcgccaag acaatacagc 180
 cagactcttg caaacacgtc ctgctcgcca acatggccgc cggctcaccg gaggtgaaca 240
 gtgtcacctt aatgtccctg caagtcgagg caaagctcgc caagatggcc aacggcttcg 300
 ccaatgccat gtcaccacg gaccgcacc ccgccaatg cctcgcatat tgcacgaag 360
 accttcatag ggtggccaac gcatttgacg ggattccagt ggaggcggtt aaacctggcg 420
 acgaggccgg ggtgctgtcc ttcagctc 448

<210> 7563
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-E7

<400> 7563

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 ccgactcgtg cttttttgga ctccgctttt gcaggatcct gtgaggcatc gaattctttg 120
 gcaagtctct tcttgctagt gttgtacgcg ttttattcct tcgcccgaca tgctttcgtg 180
 ataaaagaat catagcaaca tagcgtgagg ttccataggt tgatgagcct gatcagtcgt 240
 gtaagctatt tactacagcc gtcttagatg gccccaggta tcctcttcgg cttgatcttt 300
 cctttgcttc gatcgccaac ttgcacttcc ttattccact attgcgatat ctttgtcctg 360
 gacaaagacc aagagctggg gcagggtgaa gaatagctta tggggctgga gtcaaaggag 420
 ctttcataga catagaaatc ataatanaaa gagc 454

<210> 7564
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-E9

<400> 7564

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tcaaggagtt gactacgatg agaccttctc acccgtagcg atgcttaagt ctgtccgaat 120
catgttagct attgccgcat tttatgatta tgaaatttgg ccaatggacg taaagactgc 180
attcctgaat ggattttctgg aagaagagtt gtgtatgatg caacctgaag gtttcatcga 240
ttcaaagggg gctaaccaag tgtgcaagct ccagcgatcc atttatggac tgggtgcaagc 300
ctctccgagt ttggaataaa cttttttata gtgtgatcan agcatatggg tttatacgga 360
cttttgagga agcctgtatt tacaagaaag tgagtgggag ctctgtagca tttctaagct 420
tatatgtgga taacatattg ttgaatggaa atgata 456

<210> 7565
<211> 424
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-026-Q1-E1-F10
<400> 7565

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gttgtgtaaa cgtcttattg catctggcgc gcctttgaat gccttctctt gagtggaggt 120
tcggggcgcg cgatgggttaa ctctaccaa cctccccctt aggagcatgc atagtagtac 180
ttttcttcga gggctaataa aactcttgca ataagtatat gagttcttta tgactaatgt 240
tgagtccatg gattatacac gctttttacc tttccatcat tgctagcctc ttcggtaccg 300
tgcattgccc tttctcacct tgagagttgg tgcanaacttc ggcggtgcat caaaaccccg 360
tgatacgata acctccatca cacataaacc tccgtatacc ttcctaaaaa cagccaccat 420
acat 424

<210> 7566
<211> 424
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-F12
<400> 7566

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cctattcagg ttccatccgc aggaagtccg gccgaggttc ccataatggc cccgaacgat 120

gtgaacaggg ttcccgaaat acctaacggg tattcggtac accgtgcaat gtacctaccg 180
catcacagcc caccctacg gtcagcgctg tccacggcct ccagtagct acaaacacca 240
gaaactactt gcaactcctg aacagagagc tacgggtgaat aagaagtcga gcgggggtcat 300
atttcagggc ccaatgcatg gtagtagctg tatcttaaata cacatataca gatctcagtg 360
cttaaggctg gcttcaatga aacaaccac catgtaatcc tacatggcct ctcatcgata 420
cctt 424

<210> 7567
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-F3
<400> 7567

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cggttcacg gacttcagcg agttcatctc cttctgcaac gccaacccgg ggctcatgaa 120
ggacgtcgcc aaggctcttct gaatcagttc atttcacctc agccgtccga tccaggagcc 180
gatccatcta cgtacggctt cgtatatcaa tttcatgcaa ctacctactc cgggtcccgat 240
ccagcctcag cttcacctga ggccggccct aattttgttt gatcaatttt tttgctacta 300
gtagtaacta gtgatgatca ctgttgacc atttatttat tttatatcgt cacaactttc 360
cagtgggtcc tttccttcct caacctttt 389

<210> 7568
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-F5
<400> 7568

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aataaacaaa gaaatccaga tccaaaagaa caggaataaa aaccaagttt caaaaatatg 120
acgcggccga tctaaaggat gaaccctaaa ttactcgtgc atgaaacttc aaaccctcc 180
tatagggtac ccaattatta aattaaccga ccttcattta aaaacatcga gtcgggaaaa 240

cccttgacat taccacttt atcccccttg aaaaaaatca ccttttggca atatgaagtc 300
 gtactaaatg ggcccgacg gttcacctta ccgaaaaatt cccctactaa atcggttaatt 360
 gggatctccc tgctaaaggt caatttcgca cgaagggtgt agcggtttacg ccaacattga 420

<210> 7569
 <211> 458
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-F8
 <400> 7569

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 acgacatgga gctgaacacc gctgcaacca tgggtggcgcc ccctctgacc aagcaaaaaa 120
 atttgagata tctcatatat tggcaaagct aatgcctgag agggagctac ccaaacaagc 180
 atgctttata tttgggggtgt gtaggctgga aggatcattg gtaattgatc ctatcaaagg 240
 aaggcgcgat ctccagcctg aaggaatggc tgattgattt agctatagga agcaatcctg 300
 ttctgcgatt gattgctgga atcatattta tccaagagca agactacaca cgatgctgtc 360
 aagcacacac acacaacgga ggaactctgg acatttcctc atcttctgac attggaagag 420
 gatgcactaa gttataaagt aataaagtaa gacatgga 458

<210> 7570
 <211> 250
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-F9
 <400> 7570

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 ccaccaccaa tccnaattcc ttgcatatta agtttgtttt caggatccat ctactttccc 120
 attcgtgttt ccttgtctga gtacgtttct gattccagca atcttttgca gtccatagaa 180
 taagttggtt tccaaaatca aatacgaatc cggaaacccc cctccgttta agcccaaaat 240
 tttccgaaaa 250

<210> 7571
 <211> 351
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-G1

 <400> 7571

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 taagaaaatt agacaagtat ctatctcaag taagaatttt tttctttcag aaagaagata 120
 agaacaagag gctcaccacg gtggtgccgg cgacgagatc agcgcgggcg atcgacggcg 180
 gttgtcgtgg ttttgtcacg gcagatgtcc tagagaaagg acttagtcgt ggagccatcg 240
 ctacgggtta gcttaaaggg gttaaagcgg acaagggacg caagagagtt atatactagt 300
 tcggccccctt acgatgaagg taaaagccta cgtctagttg tgatggaatt g 351

<210> 7572
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-G10

 <400> 7572

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 ttcgttttcc tcggagggaa accgatgtan aggaggaaat ggggaagcttg tgtgtcgtgt 240
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 cttttcttgt tgggtgtacg tcctctacaa gggaaatgaa cacttccctt ctttgttgcc 360
 attgtatgca actaaatata tataccgagt gatgtgattg gggataaaaa aaca 414

<210> 7573
 <211> 474
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-G11

<400> 7573

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acaatgtgaa caatgtggca tgtaccctga accctaacc cccccacac acacacaaaa 180
ccgtaaaaac attcaaaatt ttgccccaca tggaaacat tatgcatgca ttctctatgg 240
ggatcatggga tgccatgaag aaagtttggg attatacacg caagtacgat ctctgacacg 300
cgcatttccg gcctagcatg tcaacacccc gaaagcccc ttgaggtata gaccgatgtt 360
ttgaccagtc agtccagaaa actagctttg tttgtgcaag agatcatgtg tgccaaaact 420
gaagtgattt ggangtgtcc ananaatcat cgcattccgg aggggccatt tggt 474

<210> 7574

<211> 304

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G2

<400> 7574

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ttcggcccg cgaactgata gggaggatag tgtacggcga actgtctatg tctcagacat 120
tgatcaacat gtcactgaac agaaacttgc tgaggttttc tcaaactgtg gtcaagtggg 180
agattgccgt atctgtggtg atccaaactc agtgatgcgt tttgctttta tcgagttcgc 240
tgatgatgtc ggtgcaagag cagctttaac gcttggtgga accattcttg gtttttatcc 300
cgtc 304

<210> 7575

<211> 388

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-G3

<400> 7575

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cgaggagaa ggactacgat ggcgcggagc agccggagcg gcggcgggtc tttccgccc 120
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 ctcttccgc cataggcatg gagtcttc 388

<210> 7576
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-G4

 <400> 7576

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 ctcttcgtgt cactgatgac ctgttgatga ggagggcata ttttaggaag cagcagcttg 180
 acaacaaaac aacatcacct aactctaact gaagaggaca gccggtgtga tttgctctta 240
 cattgatatc gcatgcgtat gaataatggt ccaatggaat tgggagcgga gtaagaagct 300
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<210> 7577
 <211> 136
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-G5

 <400> 7577

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 acaacagatt atcata 136

<210> 7578
 <211> 455
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-G6

 <400> 7578

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acttcactcg cctcgcgccg cacatcctgg gagcctgcaa cgcatacctc ggcgggcgatc 180
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gcacatgac cttttgttgc gtgacggcat cttgt 455
  
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<210> 7579
 <211> 471
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-G7

 <400> 7579

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gacgggacgg gcctcgttcc cgtcctcgat aaagctaattg gacacctaac tagcgcattt 180
aatgcatttt gtcccctaac gtcaggcgat aagctcacgc gctgtacacc tttccacctc 240
ctgtgtgcca ccgtggcaac cccttttcga ctataaacg aggcccgacg catactggag 300
agggattcgg ctttttgaa ctacacaacc gccgtagcta gttcgaaagc tcaagaacac 360
tcaatacatc caccatagca ggactatggt tttacgcac ctcgcggcc gaacctgtgt 420
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<210> 7580

<211> 463
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 7580

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 tgtcttatag tttagctgct ttatctgtct ttggttttat cgcttggtgt tttgtatggg 180
 tcaataatac agcttatccg agtgagtttt atggaccac cgggccagaa gcttctcaag 240
 ctcaagcatt tacttttcta gttagagacc agcgtcttg agctaattgt ggatccgctc 300
 aaggaccac aggttttaggt aaatatctaa tgcgttcccc aactgnngaa gttatctttg 360
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<210> 7581
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-G9

 <400> 7581

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 tgcgtgtgac cctgcggggt caaaaattat gtagtgcaca accgagacac ctctccagtc 180
 aataaccaat agcgacacct gggttcccat attggttcct acataatcca agatcatctt 240
 tatccgtcga tgctttatga catcatacat aagtcgcttt gtcagtcctg acgttacgtg 300
 cacaagattc gatcatcggt atcactatgc ctactttaaa ctcatattg gcaagtcgct 360
 ttactcgatt catagtacat catcctg 387

<210> 7582
 <211> 376
 <212> DNA
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<223> Clone ID: LIB104-026-Q1-E1-H10

<400> 7582

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aggacagcca gctgacgatg gtggcgacg acctgaagcc gggggcggtg ctgacgtgcc 180
cggagaagaa gttgatccag caggtggtgt tcgccagcta cgggaaccg ctggggatct 240
gcggaacta cacggtgggc aaatgccaca cgccaaggc caaggagatt gtggagaagg 300
cgtgcgtggg gaagaggagc tgcgtgctgg ccgtgtcgca cgaagtgtac ggcggggacc 360
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<210> 7583

<211> 330

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-H2

<400> 7583

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gtgatcttgc tagatgaggt ggccgagtgg aaggctgccg ggctgggtgt angaggtctc 180
caacgattcg tgagaagtta gcctaagatt ctagttaagt gtgggtgttg ggttgtacct 240
gtgctacacg tttgttccca ttcgtggcgc acgtcttgta aatatttttt cccttctata 300
aaaatatggt acgtctttgt cgtattcttg 330

<210> 7584

<211> 226

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H4

<400> 7584

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ccaagggcaa ctaccggctg gtcctgaacg cgagcctgta cgatgacatg tcgctgaagg 120
 acatggagaa gaagggcgtg acgttcgcct gcatcaacag caccggcgat acccaggcaa 180
 tgctcatcac gtacgccctc acgttcaagg aactgtcgt caccgga 226

<210> 7585
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-H5
 <400> 7585

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 tcgtgaagga cggaccaaactgtgtgtgtca ttcacgacag acatgctggt ataataagg 180
 tcgtgaagac acttcgtaatacaacagatg atgaaccaac accttggagg gacttgcaga 240
 gccgggtgggtg catgcgccat cttgggggcta attttttctc acagttcaag aacaagcgggt 300
 tgatgaactt gttcaaaaaa ttatgcaagc agagccagca gtgcaaatac gaatttat 360
 ggtcaaaact agatgagttt actaagaagc aggtccgcgc gaggaagaaa atggaagaag 420
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<210> 7586
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 gcttgaatac aataccaaga tctgaaatcc tttaatgaga gagagtattt gcatagttgc 180
 ataattattt agctactcat tgatcttcac ttatatctt cggagtagtt ttgtgtgtt 240
 gctctagtgc ttcacttata tcttttagag catgggtggt gttttatttt gaagaaatat 300
 atgatctatc atgcttcact tagattattt tgagagtcac taatagcatg gtaatttgct 360

taatgttttaa atacttggtta ttcangatat g

391

<210> 7587
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-H8
 <400> 7587

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 atattgtaga aaattagatg cggcggagat gttgcattaa cttttgcaac aagagtcttg 180
 atgcagaaaa ttagacgcaa cggaaaatgt tgttgtaatt tttgcaataa ggatcttgtt 240
 acagaaaatt agatgtgtga aagatgtgca agaaattaga cgcgtaaaag atgttggtgt 300
 tgcagaaaat tagacacagt gggagatggt gtttgcaatt tttccaaggg tcctgttgca 360
 gaaaactaaa gaagaagaag ttttgcaaca tgggtcctgt t 401

<210> 7588
 <211> 225
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-H9
 <400> 7588

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 gtggggtttca gggacttttt gaatgggaat ttgatggcac tatgctgcgc tgtgatttgg 120
 aagttctcaa cagcacagt acatgtgaaa ttctcttacg tgcaagtcac ctgctctaata 180
 ctgccattt ttgaaattac ctgaaaagca gcaactctac aggat 225

<210> 7589
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-A1
 <400> 7589

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aaacgctgca cccggactgt gtctggccca ggtaccggcc gagctctgtt cactgatttg 120
catcacagtg cccccgagt cgagctctat tctgaacatg ctccagaaca cgctgggtag 180
gattccctcg acctcctaaa acaagccaga caaagggaca aggtccgatg gggcatcaat 240
gcacatttct tgcattcata tcttgccaaa attctgataa gtcaacgcct tcaatccggg 300
atacatgctc gtctgattgg attaataaat cctcaatatt tcctcactta gggaagatcg 360
tctcatcacc tccctcatag tcttgccac attta 395

<210> 7590
<211> 311
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-A10
<400> 7590

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cgttgagtct atggtgtaga agcactacgc agcttccgag agtgccagcc atgtcgatac 120
cgcacacctt tcgcgcggtg tcatacagcg agcagatgcc ttctcagaa cagccagcag 180
acgtacatat catggtattg tccagagacg attccatgat agattgccat gcagctttcc 240
accgttgctg ctaggaggca tgcttcatca ttgtcataat gcgttgcatg atcatgtgct 300
tgacattgtt t 311

<210> 7591
<211> 289
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-A11
<400> 7591

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tgttgcctcc atggatttta agtaactctt cagctttcga ggattgccta cacgttcgaa 120
gattacatac ctttccatgg tactttatag cccttatata ttttcatcaa aattacctat 180
catcgatttc tatcatggta tttctatatg gttccgacat atattgccat gcattcttcc 240

actgttccgt ttattatgat acgcttcacg attgttatct tgctttgcc 289

<210> 7592
<211> 234
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A2

<400> 7592

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cctggcgggtg tcgcgctcgg gtacggcccg aattcggttc gcgttttttt agtccgtgca 120
gaacagaaag agggagaaat actaaacgga ctccaaaaat cctgaaataa atttccctg 180
gcttctaaaa tcaggccgca caaggtgaac atttatttga ggctaaatg caat 234

<210> 7593
<211> 117
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A3

<400> 7593

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ctgtgatacc attcaagata attcctggta cgcttttatt aataaatcct caatata 117

<210> 7594
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A5

<400> 7594

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accccgagtc gagctctact ctgaagatga agcagaacaa gcccggcagg acgcaatcga 180
cctcctagaa gaagaaagag aaatggccat ggtccgatcg accatctatc agcaagcctt 240
gcatcgattc catgccagaa atgtgaagag tcgagccttc caagaaggag acttggtcct 300

ccgagtggat taacaaaaac cacacaaact ctcacctact tgggaaggtc cttcatagt 360
 cactagagtc ctctccacc ttataacgt cgatcgccaa gattgatgag caacgaatcc 420
 tgaaatgcgg aactactttg ccccttttat ag 452

<210> 7595
 <211> 231
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-A6
 <400> 7595

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 ccccgagtcg agctctaate tgaagatgaa tcataacatt cccggcagga cgcaatcgac 180
 ctctataag aagaatgaga aatgggtcatg gtccgatcga caatctagca g 231

<210> 7596
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-B1
 <400> 7596

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 atcttggggg gccatgggca tccccagct taggtcttg ccacccttta ttccataatc 180
 caaaaaaggt ttaacaaaaa ctttaaaact tcacaacaca aaactcaaca agtaatctta 240
 taagctccgt taatgaaaga aaacaagacc accacataag gtactgcaat gaactcattc 300
 tttatttatt ttttttgtg ttaaacctac tgtattccaa cttccttaag gtttataaac 360
 taatttatta gccatagatg cattgaaata cgcaaacaac acacgaataa cagaatctgt 420
 caaaaacaga acaatctgta gcaatctgta actaac 456

<210> 7597
 <211> 412

<212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-027-Q1-E1-B10

 <400> 7597

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 agctaagcag cctgcaggag aggatcaggg agaggatgaa cgtgagggaa ggcacctcct 180
 acatgaggag cgccgtgcgg cgcttcttcg aggccggcat gtccggccaag aggatgggcc 240
 tcgccgacga cgagcagatc gtcaagatga ggccctccct taccaccaga atgacctcct 300
 cccctgcaga tcaagatgat agtccgtaga gagcaacgat gcatacatat ataggatgaa 360
 gattgatgtt ggaattacca caattcttag tactacacat acatacatag aa 412

<210> 7598
 <211> 423
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-027-Q1-E1-B11

 <400> 7598

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 accttacgat cgggtagaca gtaccaacct acatccccta catatgctag tctaccactg 180
 taagagttcg cagcacttag tcaactatgc tagagcctgt agtagcttgt ggctgcatat 240
 ggaagtttct agtatgaata atctcacgat ccctttgagc ctgggtggcg gtccataaag 300
 aaaaacaggc aatcactgga ataccagggt gcctcaatcc acccagatgt gtgtttaagt 360
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 caa 423

<210> 7599
 <211> 380
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-B2

<400> 7599

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ggtaagcgcc tccatgtcgt angggtgggt aggccaatag aagactacgg aacttagcct 180
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tatatatagg tttttctttt tcgtagaggt tgcgcttaa gtccttggac ccttccttca 300
tgaagcttga ggaaacactc acttttcaat caacngcatt cttggttctg cacttaatcc 360
tgaacctgtg ttgggttggg 380

<210> 7600

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-B3

<400> 7600

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gtcttggagc gtcttttgca tttagttttc acttttcttt tatgcaccat gccggtatga 180
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ggcttaaaaa atggctcaag ttctcaatt aaaacatttg aaatttggat tgctgttttc 300
ccttcacata gaaaacggcc atttgtagaa tgcccttttt cttcacttat atttgttaga 360
gcgtgggcat atcttttgta gaaataatta aactctcttg cttcacttat atccaattag 420
agagatgac 429

<210> 7601

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-B4

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<210> 7602
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-B5
 <400> 7602

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 acccccgagt cctcgggtggg tgaggtcaag agaatcatcg agagtgtctca tgggcagaat 180
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<210> 7603
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-C1
 <400> 7603

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taaaaagttt cacaatggta aggggaataa taatgggaaa aggggtaatt caagaatttc 180
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cgcgagcta ccatctttct agcacatgag ttcatattta taataaaaga ggctagttaa 420
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<210> 7604
<211> 414
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-C10

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<210> 7605
<211> 268
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-C11

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atgcacgttt gtgaccggac ggaatggctg cactgttttt ccaactatta tggcaactct 180
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268

<210> 7606
<211> 439
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-C4

<400> 7606

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ccccgttttg accgcaatgc tccaacacat gtctgtttcc tccgttttgc ggtacgccac 180
accctcctg atcaacaaga ccctgtttcg accgtangag gtccaacaca agtccgtttc 240
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<210> 7607
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C8

<400> 7607

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cggaaacggg agcgcggcag gtagtgggct ggacagcgtg caggttggga agcacgaggt 180
gcgaattcgc gtggaagtga gctagctaat tatacagaca catatataga cagtattggc 240
gcagaaggca gatgaaagga gtcaaatcaa gatgaacaaa tctctgagat cagatgtata 300
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taatagattc gttaaaaaaa aattcatgaa caatgtgcag taaggatcaa ctggaaactt 420
gccttaaa 428

<210> 7608
 <211> 341
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-C9

 <400> 7608

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ggcgtcgggc catttgggct ctgggtgctc gcctccgacg acctcaagga aagaacagct 180
gttttcttca gggatttcaa gaacaatgac accagctatg tcgtcctcat gtgcaacgac 240
cctacaaggt cgtcattcga gtcgcagatc tacangccga ccttcgcccgg cttcgtcaac 300
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<210> 7609
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-D1

 <400> 7609

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aaggacgtcg ccaaggtctt ctgaatcagt tcatttcacc tcagccgtcc gatccaggag 180
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atccagcctc agcttcacct gaggccggcc ctaattttgt ttgatcattt tttttgctac 300
cagtagtaac tagtgatgat cactgttcca tcattttattt attttatatc atcacaagtt 360
tcttttcttt cacaaaaaaaa aaaaaaaaaa aacaaagaaa agcgacgcac agggagccag 420
ggccagc 427
  
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<210> 7610
 <211> 431
 <212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-D10

<400> 7610

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caactatatg aaatctgcaa agtctttttt gtgtgcagaa aatttcacac tctgcattac 120
ttgcaaaaga tgctgatttt gatcttaaca attatagttg ttgttcaagc agtagaagat 180
ctggcaacct cacggccatc tcattcgaaa ttgaagtcct atccttaaag tttagctaag 240
tgtattatth attttctggt ttaaattatt ttctcatgt gacacaaaag gcttgaagcc 300
ttcttttaac tcgcacttct atgctaacca aatttatttc tggctgtcag aagagttcgg 360
agcgaagctg gccagcatct tcgcatgtga cacanaaatt gttgttcaag cacacaactg 420
ctgtatttcg t
431

<210> 7611

<211> 222

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-D4

<400> 7611

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ggaacggacg ctgttcttga tgcacagaat aggagggcat tcttgcaccg catgggggag 120
aatgagcacg tgactacaca tcaaattggaa ttctgcacat tcctacgtcg aacgatcaac 180
tgccatctga agccatttat aaccttgaca cattgagaag ca
222

<210> 7612

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-D7

<400> 7612

aattcccggg ccgacgggag gggcatgcgt agtagtactt tgcttcgagg gctaataaac 60
ttttgcaata agtatatgag ttctttatga ctaatgtgag tccatggatt atacgcactc 120

tcacccttcc atcattgcta gcctcttcgg tacogtgcac tgcctttct cacctcaaga 180
 gttggtgcaa acttcgccgg tgcacccaaa cccogtgata tgatagcta tgtcacacat 240
 aagcctcatt atatcttctt caaaacagcc accataccta cctatcatgg catttccata 300
 gccattccga gatataattgc catgcaactt ccatcatcat catatacatg acttgagcat 360
 ttattgtcat attgctttgc atgacgtaa gatagctagc atgatgtttt catgacttgt 420
 ccgttttttt gagtccatgc tacgctagat cattgcaca 459

<210> 7613
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-D9
 <400> 7613

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 gtgaaaatgt gatcggcatt ggtggctctg gcgcgattgt gtttcagggg gttctccctt 120
 ctgggtcaag ggttgctgtc aaacgggttc aagctatgtg gccgtgctca aaggcggttc 180
 tgagttagct tcgtgccatg cttgattgcc cacaccaccc caatcttgcg cactcttg 240
 gatggtgctc cagttagcat gaccagggtc ttgtttacga gttcatgccc aatggtaatc 300
 ttgacagtgc actgcacaca aagggtggag caatacttcc ttgggaggca cngtttcngg 360
 cgggtgcttg tgttgcatca acacttaa atctgcatga tgaatgtgaa caccgca 417

<210> 7614
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-E1
 <400> 7614

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 acgtgatcgt gctggctgtg tacgtcaagg tgcgggctc ctgcaaagag acgtggacgg 120
 ggttctccac ggaagcggtc cgcgacgtgc tcagcttctt ccggctcgcc gtcccgtcgg 180

ccctcatggg ctgcctggag atgtggctgt tcgagctcat agtgctcctg tcaggccttc 240
 ttcccaatcc aaagctggag acttcgggtgc tgtccatcag cctcaacacc gctgccttcg 300
 tatggatgat cccctttggc ctcggtcttg ccataagcac ccgtgtctca aacgagctcg 360
 gagcggggcg ccccgacgct gcccggt 388

<210> 7615
 <211> 358
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-E10
 <400> 7615

tgacgataag aatacgaacg tgcgacgacg tgcgcctta gcaatcgcta aaccaactcc 60
 gagaggttac tgaccacgct ggagcacgat caacctgacc acgaggggtct gtttcctgcg 120
 agcaaacgaa gaacactcaa gaaactaaga ttgactctg gacattgcaa ctataatatg 180
 aaagctttag tgatcacggt ggggttctgt cacatccttg tccggtcatt gaacacacac 240
 gaagtagcca aagttgcagc tatggcgaac gtttaatcta aacaaaaccc taactcgaaa 300
 ccacgcccta agggctctac atgtcgagga acatggggga atttcgtggc cctttggt 358

<210> 7616
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-E3
 <400> 7616

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 tacgcactct acaaattctat cgtcagttgc tattgtctgt aagtgatttc tttctgtagt 120
 ttaagtcgca agctaactgt agtgatcatt ttgatcaatc attacctgta attagcctca 180
 ctatattctt ttctgtggta ttatgcagga tgaagatgta tgaaatgaaa aaatctggac 240
 gctatggcat tgggtccatt gagccaaata gcaataatga gtagacatgg aatattccaa 300
 gttgtcgagc aagtttagag gaaagcatgc tagagttctt caagcgcctc aataccaatg 360
 gagatatact acttccttac aacttcctgt gagtcacact gtcttgta 408

<210> 7617
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-E4

 <400> 7617

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ggatgtttcg tcgtggtatc atggcaaccc aactcctcgc tacgtggaca atcgtttacc 120
accttcttaa gtgtggaatt gttgtccacc tagtgaacct tcgtcatccg tttctttcca 180
cccctcttga tgcgtatctc gtgtctcaac ctgagagatg gttctatggt tcattccgtg 240
agttgttcga cctttgagaa gatcgatcct tccagaatth ttttccctct cgttgtcatg 300
ttagctaaaa ttctcaaaag caggacatca agacaaagat ggtgatcaaa tcaacgttcc 360
tatgaagtgc aagttggatc gtgaagattg cgctagtgtg gttccc 406
  
```

<210> 7618
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-E5

 <400> 7618

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accagtcgc tagttgaact acccatcaag ggtaggacgt acacgtggag taacatgcaa 120
gatgaccggt tgctggtgca attagattgg tttttttcct cagtgcactg gtcttcttcc 180
tagcctaata cactgtatc gcccttgggc aagcctgctt cagatcacgt cccctgcgtc 240
attggcattg atttgtgcat cccaaaaagc aaggtgtttc attttgaaaa ctactggata 300
caacattcag ggtttcacga gatagtgcaa tgctcttgaa gccaaccttg tcatgcggtc 360
aactcagcgg ctttgatctg tagaaagcta aagatactgc gttacgcttt aaagtccctgg 420
agc 423
  
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<210> 7619
 <211> 418
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-027-Q1-E1-E7

<400> 7619

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gaatatataa ctgttcaaga ctgtcatccg ggatgttctt gatatatcta cttttcattg    120
tgcttagtgg ggtttatgtc actgttggtt gttctcgctg ccgctatgct atgcatctgc    180
caagcaagca acatctcaaa cttgtgttgt tataacttgt tcagatggat cttatgtata    240
ttacgttggt tcattgtgca tctcacatac aatgtgtttc attttgaaaa ctactgaata    300
caacattcac ggtttcacga gatactgcaa tgctcttcca accaaccttg tcatgcagct    360
aactcaccgg ctttaatctg tcgaactcta aatattccgc tttatgcctg aatgtcct    418
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<210> 7620

<211> 385

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-027-Q1-E1-F12

<400> 7620

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tttagttggc caatgatttt gagtagtatt atcatcatgg tatgcttcac cctgctcctg    120
gaaaattgaa cattatctcc ttgtatgcta ttgataacct ggagtgtgga ctttcctgct    180
gtgggtcata tgatttgacg tgaatcggct tcagatgaac agcagagaaa acgggactca    240
gcattctcag tgcgtgttt gcttgctagc acatcttttc tgggtccac tctacgcat    300
tgatttgtct gaccagttgg catggtttgg aggatgtaaa tatactacag aagatgcgtc    360
atgtgacaag cctgccctag tgtgt                                385
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<210> 7621

<211> 453

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-027-Q1-E1-F3

<400> 7621

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 cgtttactca tgagctgagg caagtccagt ggccaacac gaagaatttc aagccagacg 120
 taccagagaa gtacgacggc aagtcgcata catcggagtt cctcagcatt tacaccaccg 180
 cgggtgcaggc tgccgggggg cgggacgaca agatccttgc caactacttc ccgctggtgc 240
 tcaagcccaa cgtcagggtcc tgggtcatgc acttgccgga cgactccata tcctcctggg 300
 cagacctatg ccattagttt gtcgggcgct ttacaggcgt ccacaaacct catggccaag 360
 agagtgcact tcattctgct gccagaagg aaagagagcc cctgcgcaag tacaattcag 420
 agatcagccg tgtacagcac aacatcccag atg 453

<210> 7622
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-F5
 <400> 7622

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 agtatattgc aatgtccgct ggggagttatc aagggtgtgtg gctaggaagg ttacacagtg 120
 atctcatgga tcgagatcca acaagtggta cttaatgttg atagcaagtc ttaatttttt 180
 tctacgtgaa gatccagcac gccatgatag aagcaagcac attaatacgg tgtatcacta 240
 cataaaggac tgcattgaaa aagggaagt caactacatt tacaccaatg atcagatgat 300
 agatatgcta accaagactt tggaccgaga gaagtttttg aagatacgaa gaaggatcga 360
 cgtccgagtt gtaatatggt gacgtggtgt ttagggggat gattgttaga atttaacacg 420
 tagtcacaat cctggctcgg acgtaaacag gacaccg 457

<210> 7623
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-F7
 <400> 7623

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tggatttcag gacaaccagt cgcagatgag catgaacgcc tccagattat aaagaatgat 120
gacctcgaag agctccaaga actcggttct ggaacttttg gaactgtata tcatggtaaa 180
tggaggggct ctgatgttgc aataaaaaga atcaatgaca gatgttttgc tgggaagcca 240
tctgagcaag aaaaaaatgc ggaatgactt ctggaatgaa gcatctaacc ttgctgatct 300
gcaccacccc aatgttgtgg ccttttacgg cgttgttcta gatgggcctg ggggatccat 360
tgcaacgggt acagaatata tggtaaatgg ctcaattagg acggccttgc tgaagaattc 420
aaggaccctg gatggacgca aacggctaata tattgccat 459

<210> 7624
<211> 374
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-G2
<400> 7624

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ggctgttgtg tggatgcaga accaacttgc acagaacaag acccaggatc tcatactaga 120
ttacgttaac cagctgtgca accgtctgcc aagcccatg ggagaatcag ctgtggactg 180
tgccagcctt ggattcatgc ctgacattga gttcaccatt aatggcaaga agtttgcgct 240
gaaaccagaa gagtatatcc tgaagggttg cgaaggagct gctgcccagt gcatcagtgg 300
attcacagcc atggacatcc cgctcctcg cggctccttc tggatcctgn gagacgtttt 360
catgggcccc taac 374

<210> 7625
<211> 458
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-G4
<400> 7625

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aaatattcaa caatagtctc gaggactaca cctagtgtgt gccttagcgt gccccactg 120
gttcagatca gtactcagca gggatatgcc agcgtgagtc caaaaaagag agagaaagag 180

agtacattct aagacctcac actactagga aaaggcctac taatggcgca cgggttttgc 240
 ctactaatgg cgcactaccg gtgcgccatt agtagcacgc cactagtatt ttttactaat 300
 ggcgcaacac cggggcgcca ttagtatctg atatactaataat ggcgccaccac gaagtgcgct 360
 attagtatgt aagaacatgc gccattagta tgcctcccgg gggggccata cgtaaccatg 420
 tgctttgtca tactaatggc tcactctgtg gtgatgcg 458

<210> 7626
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G6

<400> 7626

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 ttgccgaatc cctaaagggtg ttcggcggtg cactgcgaga cttctgttga aaatacacaa 120
 atagtttgaa agtgccatgg gctcgaaaag cgaaaaaact tattcaaaat gttaatgtcc 180
 gaactagatc aagtgttcgg tgccaatccg aaaattggac tttagaaaaa aagggtgcttc 240
 tgccgtgctt taacatgaca catcctatct caaaacttca agcgggtcag cctacagctt 300
 caacctccta tcccgaaagc agagtacttc ttactaggcc cgtttagcaa actacactct 360
 atcggctttg agagagaaat taagctccac cgctagcgac cgcacacttg tgtcaaaaaa 420
 aaggattggc aaatactact aacaactttg cagcgactac taagaaaaac acttatcat 479

<210> 7627
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G8

<400> 7627

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 gttgatcgtg ctcgagcgtg gtcaataacc tcacggactt agtttatcca ttgccacagc 180
 gcaagctcgt gcaagtttgt actccgatct ccaaagtcgt ttccaacagg tcgatagtta 240

tcattctcagt gaaagatcgg gacacgctct cctctagtaa gtgagatcag ttttcaagat 300
gctcagtaag aatttctagt tctcatagat gagatgtata ttcttaccta 350

<210> 7628
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-H10

<400> 7628

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caagagccta agcttgggga ttaccaaggc accccaaggt aaaattcaag gacatccaaa 120
agcctaagct tggggatgcc cccggaagga tcccctcctt cttcttcgtc catcggtaac 180
tttacttgga gctatatttt tattcaccac atgatatgtg tttttcttgg agcgtcntgt 240
antatttgag tctttgcttt ttagtttacc acaatcatcc ttgttgtaca caccttttga 300
gagagacaca catgattcgg aatttgttgg aatactctat gtgcttcgct tatatctttt 360
gagct 365

<210> 7629
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H12

<400> 7629

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atgtatcctg gcgatacccc ctagctggag ataagctacc agttgctcct tgaaagcgaa 120
cgatgaaaga ctgcacatga cacatagatt gagttttgtc cacggatgtc atctcccccc 180
tgccctgccc ttatcttgcc gtccccaagc caacagatgc atgtgcgttc agctgacgcg 240
gatccgttgt tgatgagacg tttattacca ccgaaaaatt acgattcctt aagacgaaga 300
tattggcaga attcgaaaag gagaatgaat ggcgactgtc aagtcaggta tggaaacgtg 360
cactggtgcg agctaaa 377

<210> 7630
 <211> 189
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-H2

 <400> 7630

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 gaatcgggcg gctgtgccgt ccgaattgta gtctggaaaa gcgtcctcag cgaccgaccg 120
 ggcccaagtc ccctggaaag gggcgccctgg gaaggtgaga accccgttcg gcccggaacc 180
 tgtcgcccc 189

<210> 7631
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-H4

 <400> 7631

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 ttttcaaaaa ggaaagtga agttataaag acaagcattg ttgaagtga agagctcctt 120
 gaactttgtt catgctcacg ggaactctgt gaatcttgat ttacaaaaaa tttcaaacia 180
 aaataattat ccctttggtc aattccaacc tattaataaaa ataatgggtgc aaaggttggc 240
 ttttaaggagt ttaaaatgct tgggtggttg tacggtgcaa ggcaaaaacc ttgggtgtaa 300
 tgccccaatt taaaatttta actggaaagg caaacgggtc cgattccttt tgcactgtct 360
 ttctgtacaa agtttcta at tttccaagt tttggttaaa tttttggggt accataagta 420
 ngtttaatgt tcagatttct acagactggt ctgtttttg 459

<210> 7632
 <211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-H6

<400> 7632

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gggtactcgta gccgtctgtt ttactttttt tttttacacg gagaggtgct catctttttt 120

cgctgctgta tgcatgggta gctgtcagtg gcatgttgca gaaaaggaag gcgactgaat 180

tacatactgt aagtagaagt agcagtgat gggaggtccc gttgggagta gggagcacag 240

ccaagttgac agtgttggtt atttcgacgt gtaaacttgc tagtactaag ctgcttaatt 300

acagtagctc attatgaaga ggaattgagc gaaaaacaan aaagaaaagg aaaaaaaaaa 360

agcggccgct ct 372

<210> 7633

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H8

<400> 7633

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gatcctgcaa catgagacgt tgcagccaca aagggtcagt acattgaatg tactggcaaa 120

ttcacaccaa agagcaatga tgaataaagg ctatcactac atgcatatat ggctgggtgga 180

aagctctatg gttacagttt ttgcaaaaag ccaatttttc cctactacaa aggaataaat 240

tttacttact atcattgtgg ttgtttaaca atgagaatgg ttgacactat tctcaatccc 300

aatttaacat catcattaaa acccaacaaa atttattata agtaacatga ttagattaac 360

atgataatc 369

<210> 7634

<211> 281

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A11

<400> 7634

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atgtcaagct gttaattgtc gtgatttgcc gggttggaact ctacatgttt gccaatatac 120

ctgtgcagcg ggtgcaactt tggcacagtg aactattact tactttgtga aaacaaaaac 180
gataaaaggg aatacacagt gcgggtcccg cgctcggatg gatgcttacg taggtatgca 240
tgcaacctca gtgatattcc atcgagggac ccacttacat t 281

<210> 7635
<211> 415
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-028-Q1-E1-A12
<400> 7635

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cagttcagct agaggaagac gaaggcggtt cgatcagtc gatctcctgc tccttttaca 120
tgatgattac tattatctta atcttagtgc atgtgtatgt aatatgcacc atgaattggc 180
agtgcagtgc agtgcagcac agcacatctc tgaacctggg aaggtactac tagctttctt 240
ttcaactcaga caagtcggga gggggtttct tgtcagttag tcggtttctg gcttgtcagt 300
agctgtggcg cgtgtcgtgt ggatcgagtt agttgtacta ccagaaattc ggaatgacan 360
tggaaccatg catagcanan nnaannnnnn nnnnnnnaaa aaaaaagccg gcggc 415

<210> 7636
<211> 393
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-A2
<400> 7636

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ttgccaaatc tcatgcgtgc aatgcacgtg taccttactc tagtctaaat ggtgtttctg 120
tgcttagttc tgctgagctg tacaactctg aaactaaaag ttggattaca cttccaagca 180
tgaacaagcg tcggagaatg tgttctggag tcttcatgga tggcaagttt tatgttattg 240
gtggaatggc cagtaacacg gaggtgctga catgcggtga agagtatgat ttagagaagg 300
gcacctggag gttgatagag aacatgtccg aggggctcaa tggtgccagt ggtgctcctc 360
gccttggtgc tgtaattgac aatgaactat atg 393

<210> 7637
 <211> 373
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-A3

 <400> 7637

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 cagaatccga tggccactg agccagtttt aagttggcga ggaatggtgg agcactgaac 120
 cttgccacac aacggcaccc ccttcgcctg atgacctttt ccgatcacga tgacctcctg 180
 tcgctgctga acgaattggg aacagtactg gaggaattgt gatctatgtc aagggatgatg 240
 atgtctatgg aaatgattgt tgagtgttat gatacatatg gtgatgaatg gtgacgaatc 300
 taatgtcttt cgtcaagaca tgcaacaaag tgaagttatg aagttctggt caatttagct 360
 tatgcataat gct 373

<210> 7638
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-A4

 <400> 7638

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 aaaacctttg aaccattaa aaaaaatta aggaaaccac aggaacgata ttttgcattg 120
 attcttagtg caggatgaca atacagcaaa tttcatagga catcatatgt tggtacgatt 180
 tttgaagttc cagaagttag cgtaggtac atattgctat aactgtact gtttttgaca 240
 gattctggct ttcgtgtgtt gtatgcttag tttgatgcac ctatggctac tatgtaaggg 300
 tatgaacat agacaacttg gaatacagta tgtttaacac caagttaa atacagattgag 360
 ttcattacag taccttacgt tgtggttttg taatctttca ct 402

<210> 7639
 <211> 355
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A5

<400> 7639

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tcattgattc gtttttcttc tgatcaatat acaaatttta caggacttcc tattttggta 120
ggatttttag agttccagaa gtttgcgtta gttatagatt tctacagatt gttctgtttt 180
tgacagattc tgtttttcgt gtgttggttg cttaacttga tgcatttatg gctagtaaaa 240
tagtttataa accatagaga aattgggata cagttggttt aacaccaaaa taaatacaca 300
atgagttcat tacagtacca tatgtggtgg ttttgttttc tttcactaac ggagc 355

<210> 7640

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A6

<400> 7640

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gatccgaagt aattcgagct gtaattgtac gtacatgtaa agagttcaaa tgccaagacg 120
gtataataat ccgctatgat gacaatgctg cgggtataat tgatcaaaaa ggcaatccaa 180
aaggaactcg agtttttggc gcgattgccg aggaattgag aggattgaat tttaccaaaa 240
tagtttcatt agctcctgaa gtattataaa tactagtagg cgaaattgag atcaaagaat 300
taatttagta gattgtgttt tacgtatatg ttttaaaatc caaatgaaa aaaaaaaaaa 360
aagaaaacat gttgattata gaaaaat 387

<210> 7641

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A7

<400> 7641

attcgcgggc cgacgggcag aacatcctag atacatttac aaagcttttag ttaacatgca 60
tgaactattg tctcgttcat ataaaaagat caatgtacga gccacgtaga caccgacatg 120

acaaaactaa aaagacatta gaacatcagc cttttgcaca aaggattatc agccaagaaa 180
gaagattaca atcaggaccg actacatcct agagcttgag tcaaaacgca catcacttgc 240
ctccggcaac atcacagcaa ccaccaaaga aaaaaataat ggatcacctt ttcacccaag 300
ctcaatgtgg ctccaacgct aatatgcaat ttttcagtcc tccaaaatag cttaccaaatt 360
gatgggtgtcc cggttgaggg gcctctcacc atgtcgaatc ctggcctggg tgggccaacc 420
tgaggacccc ttgtcggttt cgacttgggc ca 452

<210> 7642
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-A8
<400> 7642

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tcgttcatat aaatggatca atgtacgagc cacgtagaca ccgacatggc ataactaacg 120
ggacattaga acatcagcct tttgcacaga ggattatcag ccaagaaaga ggattacaat 180
caggacggac tacatcctag agcttgagtc agaacgcaca tcacttgcct ccggcaacat 240
cacacgaacg accacagaat aaaataatgg atcacctttt caccagagc tcaatgtggc 300
tccaacgcta atatgcaatt tttcagtcct ccaaaatatc ttaccaaattg atgggtgtccc 360
ggctgagggg cctctcacca tgtcgaatc 389

<210> 7643
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-B1
<400> 7643

gggtacatca catgtccaat attgaattgg ccgatgggtg cggcatccgt ggacaccgta 60
tccttcatga aggtccgctc gtgggtgcct tactcctttg aattgtccg ggtgaaaact 120
caatctttgg gatcggatgg tggcggctat cagtggctcg ttggcaccat cttggagtcc 180
ttgttccgctc gttttccgctc tcacctctcc tcggaggatt ggaggactcc gttggctcca 240

agcggatcat cctcgcgtat gtgtagtggc tttgtagtca ttgggggtggg gtggcggtgc 300
 tcggcaccct tgtatcttgc cttgagtgtg tgtgtcgtgt gtgggtgggtgg cgtgagtttg 360
 tatcgtcgtg atgctttgtg attggtgcct t 391

<210> 7644
 <211> 284
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-B10
 <400> 7644

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 gaaataacgc tgttgttcaa tcatcaggct ccggttcagt actgcaccaa gctgtgattt 120
 ttgcctatct tgaaaataag cacatgctgc tgtgtttatt taaacaccat gaagcgcata 180
 catgaaagaa ggcattgacat ataaaaagat taagcatcaa caaaaacgag gccgctctta 240
 aggatcaagc cttccttttag cgtcaatacg acgtcatacc tctt 284

<210> 7645
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-B11
 <400> 7645

aattccccggg ccgacgggac gtatacaacg tatctatagt ttttgattgt tccatgctat 60
 tatattatct attttggatg ttaatgggct ttattttaca cttttatatt atttttggga 120
 ctaacctatt aaccggaggc ccagcccaaa ttgctgtttt ttgccaattt tagagtttcg 180
 ccgaaaagga atatcaaacg gagtccaaat ggaatgaaac cttcgggagc gttatTTTTg 240
 gaacaaacgt gatccaggag acttggagtg gacgtcaaga aacaatcgag gaggccacga 300
 ggcagggggc gcgccctcca ccctcgtggg cccctcattg ctccaccgac ctacttattc 360
 ctccatata tgtccatata ccccgcaaac atcca 395

<210> 7646
 <211> 213

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-B12

 <400> 7646

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 ttgggttgta aggggctcta ctttacagtt ttatattatt tttgggacta acctaataata 120
 cggccgcca gcacaaattg ctgttttttg ctacttttag agtttcgcca aaatggaatc 180
 tcaatacggga actcgatatg gcacaacacc ttc 213

<210> 7647
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-B2

 <400> 7647

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 cgggacacct ttgcctctat caagtgggtat cagatttcca ggttgctcgg tgagatttta 120
 cagttttttg tagtttagat cgagtctgtt cttcatacct acagtccacg aaaaagccac 180
 aaaaaaaaaat tagggtagt tcatcatatc cgaaccaatc tgagcctttg cataatcttt 240
 ttaggggttt gctttgttga atttgcgggt gcacgtcgt gtctagtgtc tgggtcttaga 300
 gtctagtctt ttagagtttc gagttctggt cataagttgt caccgcccgc ccgcaccatc 360
 atcatcacc ctgccatcta ccaccaccgc ttatccgcca ccgcttcgaa tccgtatcca 420
 ta 422

<210> 7648
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-B3

 <400> 7648

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 aaatattatt ggaaaagggg ttattcaaga tttatttact tgtgccggtg tgttacccat 120

gtaggtgga tctattctcc ataaaactag tagtcttggtg gatgctatat ctttgcccggt 180
 agttgaactt gaaaggcaat ttgttcatat gcatccatcc atacaaagga tttttctaga 240
 gtttcccaat attgagcatt attctattaa gcgcgccgcc actatatttc tagcaaatga 300
 gtttagattt attatgaaag aagctagtga aattttcgcg cattataaag tagatggtgg 360
 tcatcctcct atagaag 377

<210> 7649
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-B4

<400> 7649
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 agattcagga cgagctcgag aaggttaatg aagaagcaag tgataagggtt ttggagggtt 120
 agcagaagta cagtgaagatt cgcagacctg tctatcttcg gaggtgtgac atcatcaaaa 180
 caattccaga cttttggctg acagcggttc taagtcatcc tcttctcagt gagcttttga 240
 ctgaagagga tcaaaagatg ttcaagtact tggaatctgt tgatgttgat gattctaaag 300
 atgtcaagtc aggctactcc atcactctta acttctctga gaatccgtac tttgaagaca 360
 gaaagcttac caagtcatat gcctttgctg atgatggaac aaccacaata aatgc 415

<210> 7650
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-B8

<400> 7650
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 agctctgtgg gtgaagacaa cagcaagcag cgggggtcca acgaggatgg ctgggaactg 120
 tgctgaactg aagatggctg aagatcgta gggtttgctc gagtttgctc catataaata 180
 aataaaaatg gcggtaataa tcatttagaa ccgtctctat tttgtgag caaaattagt 240

gaacttgccg gacttgatcat ggaatagctt tgcccttttg gaggcgactg aatatcagta 300
 agttaaaatg gtgctgacat gatatgtata taccgagatt ctagcttaat ctatagtata 360
 aataaatgat tgggtgccatg tcaatgccaa ttttattgcc acacanaaaa accnaaccaa 420
 aggaaaaacc aaaatcaacc ccaaacaa 448

<210> 7651
 <211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-C2
 <400> 7651

cccggtcca cgggagccac aacatctccg atgacggtga gctgggtggca cgtcacaaca 60
 acggccgtgg aggcgtgccc tgacgttggg tgaaggcgtc caaggcaaca acgacgacct 120
 gtcagggcag gcaagccgca cggcgagttc atggcttaga aggtgagtgt tggaataagc 180
 caccgcccac gtcctatgat ccggccggtg cgtgcatgct gatcaagcca gtccgggtgt 240
 ccgcagtcgt ggcgaagtgt agcgtgtgtg cacgctcgaa tggggcgcat ggccgggtgt 300
 gttgttagtg tatggcgtga gtctgttgta attttgccc agtcgctagg acgtg 355

<210> 7652
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-C3
 <400> 7652

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 ctagtgtccc acttatatct tttagagcac ggtggtctct taattttgaa gaaattgcta 120
 gtctctcatg cttcacttat atatttttag agtcttttag aatagcatgg tacttgctgt 180
 ggttacaaag ttggtcctag aatgatgagc atccaagttg ggtataataa aaactatcat 240
 agaaaaagaa ttggatgtta tgatcaatat gatgcttgat aattgttttg agatatggag 300
 gtagtgatat taaattcatg ctagttgagg tgattatgaa aagtacttgt gttgaggggt 360

gtgattcccc tagcatgcac gtaggtgaa ccgctttgtg at

402

<210> 7653

<211> 331

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-C7

<400> 7653

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catagctgtc actaccttga cacaattccg gttgacggtc atcatggatc taagcgattg 120
gtggccatga aatctgatgt ctgcgtgggt gtagatgtcg ctctatatgt ttaactttta 180
tggtcctgta agtctacgtc ataactcttc tatgatgtct gctacgttta ttccattggg 240
cttcgttttt taacttcgtg atgggtgatgt ccctgtcttt atccaactta ttcacctttg 300
atgcacattt ttttttctcc aactggcgta c 331

<210> 7654

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-C8

<400> 7654

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gggcaccagg gactacggca agacgctggc gagcacggtg tacgacatga tcaagtcgcg 120
ggtggcgggc gccacggact acggcaagaa gctagcgagc accgtgtact ataaggtcgc 180
cggcgtcggc acggccgttg cgagcaaggc ccagaatgtg acgacatcgg ccggcactga 240
ggtgctttac ggcgcggtc caacgataaa cactaatgtg ttgtgaactg cgccgggggc 300
gatcgtggga tcgctggaga aagtcgcctg cttggtggtt ggggttcact ggggcttcac 360
acggttctac acgtgtt 377

<210> 7655

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-C9

<400> 7655

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aagagaaagt acaatgtgaa gtggaatgac gaggtcactg cggaagacat ggaggcctac 120
cgtatgacaa gagtccgcca cgacgattct aagaaagatt ttccaatta agcgttcaag 180
tcccctgtgg ttgcttgccc tatgcctgaa ccttttctgc tgcgtgtcaa ccttttgccg 240
gattgttgtc tctgtactct ctgggtgtct aggaacacgg gatgggatgg catgccagct 300
cgtgagttac tgatgttgtg agtacagat atgatcgctt gatgtccaaa ggcagaacga 360
agtttgttct catatgtcct ttgaaacctc cttcctggta accatggcat acgccactca 420
tatggatat 429

<210> 7656

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D1

<400> 7656

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ctccgtggaa agaagagaaa acccaccgtc agccatggcg aactcggcgt cgggcatggc 120
cgtgagcgac gagtgaagc tcaggttcca ggagctcaag gcgaagcgaa ccttccgggtt 180
catcacgttc aagatcaacg agcagtcgca gcaggtggtg gtggaccggg tggggcaacc 240
gggagagacc tacgccgact tcaccgccac catccccgcc gacgagtgcc gctacgccgt 300
cttcgacttt gacttcgtca ccgacgagaa ctgccagaag agcaagatct tcttcatctc 360
ctgggtccccg gacacgtcca gggtagaggag caagatgctg 400

<210> 7657

<211> 184

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D10

<400> 7657

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 aaaaaaaaaa aaaaaaaaaa aaagaagaaa ataataaaaa ataaaaataa atgcgggacgc 120
 acaaaagggtt cgatcctcac gttcgcgttc aagttacggc tcatcgcttc gttactgctc 180
 ccca 184

<210> 7658
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-D2
 <400> 7658

ggtctaggat tccgggceca cgggcctggc tatctctctg gaggaccggc gccatggcgg 60
 cggcggcgct ggcgcaggga actcctcggg cgattcgccg ctgctcctgc tgccgatgct 120
 ggacgacgac atctcccgtg aggtccagcg cctagatgct gatatggacc gattcatcag 180
 ggcccagagt gagcgcataa ggcagtctat attggagaaa gttcaggcaa agcagtttga 240
 agcgctggcc tctgttgaag acaagatcct ccgaaaaata cgcgataaag agtcagaagt 300
 gcagaacatc aacaaaagga acctggaact cgaggaccag attaaacaaa tggcagggga 360
 agttggtgcy tggcagcaac gagctaagta caacgagagc atgatcagcg cact 414

<210> 7659
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-D3
 <400> 7659

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 aaactagaca agatgcagca caacgacgat gataatgtcg actgcggcgt tggctctcgga 120
 tgtgtacaga ataattcctc gctatcaggt ggtaataacg caccggaacg gacgctgttc 180
 ttgatgcgcy gaatggcaag gcaaagcatt ctttcaccga gcaatggtga ttgacgactt 240
 gattacagac aagatagatt tggcacattc ttacctgtaa agataatttg ccaaataaag 300
 ccgtttataa gctttgccac tttgataatc tcttgtactg acacaatttg aaagaattcc 360

tttgagaaca aanaattaaa aaaaaaaaaa aaaaaaaaag cggccgctc

409

<210> 7660

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D4

<400> 7660

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gctagtgcc aatcgcccta ggttataacc gtctcatgat gaatatcatc caacaagtca 180
ccgatccaat gcctacgaat ttatcttata ttgttcttgc taagttacta ctactatcat 240
cactgttaca cttcctaaaa aactgttgct atcattgtta ccgtttcctt tactgctact 300
actattatca aaactatcat attactttgc tactgatcac gttgctgcag ataattaatc 360
tccaggtgtg gttgaattga caacttagct gctaatacct tcaaatatte tttggctccc 420
cttg 424

<210> 7661

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D7

<400> 7661

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gttcgcagtc aaacaatgtg gcaaattggca atctggaaaa cacacacgaa gtgcagggtga 120
accgaatgag cttatctcaa tacagggaca tccatagaaa gattgttgag tttatcagaa 180
agagatacca tattctggaa aactgcttgg acattgaata tgccgtgata aaaacatata 240
ctcctgttcc tgatgatctt actgaacaaa atgttcctat gggacatagc ccagctgttc 300
cagatatcag tgaagtgttg agagaacttc cccctcttgt accaatttct gccatagaag 360
tggtttctga tggctcaact gaccaagcac aactttccca acc 403

<210> 7662
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-E1

<400> 7662

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 aagcacgaag gggaattaaa caatgtatga gttgaagagt tactctcatt agaagggtgg 120
 cacgggtgat caatccgctc ttccttcttt tgttcttcgc tctcctcctc atctttttca 180
 tccaatgagc tcacagtttc atcaacttct tcttccatag acttctgcaa aatattagtc 240
 tcttcttggg cagcggggta atcctcagta tatagttcaa cataggcatt agaagcataa 300
 ttatcatagc aatattttaag tatggcaaat ttttcagact tgtaaagagt agcatcatac 360
 gtttcaatca aagaagcaat ttcataagca cccttaaaag caacaaattc ctca 414

<210> 7663
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-E4

<400> 7663

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 gaacctcgat cgatcgtagc tcgtgttccc tctccttttc gcggcgatgg cgggtggatct 120
 gaccccgagg cagccggcga aggcgtacgg cggcgaaggc ggtgcctact acgagtggag 180
 cccagccgag ctgcccattg tcggtgtcgc ctccatcggc gcagccaagc tctcgctcgc 240
 cgccggctgc atgtccctcc ccagctactc cgactccgca aaggctgcct acgtcctcca 300
 aggcaaggga acctgcggca tcgtcctgcc tgaggccacc aaggagaagg tagtcgccgt 360
 caaggagggc gacgctctgg cgctcccgtt cggcgtgggc acctggtggc acaacaaccc 420
 gggggtcggc aacggagctc gtcgtcctct 450

<210> 7664
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-028-Q1-E1-F10

<400> 7664

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ccctgctgta gtgtcaagga caggatagga atcagtatga tttccgacgc tgaagagaag 180
ggcttgataa cacccggaag gagtggtttg gtggaagcaa caagtggaaa cacaggaatt 240
ggtcttgctt tcattgctgc ttccagggga tataagttga tactgacaat gccacatca 300
atgagcatgg agaggagagt cctactcaag gcttttggcg ctgaacttgt gctcacagat 360
gctgcaaaag ggatgaaagg ggccttagat aaagctacag agatcttgaa tangacaacc 420
aattccatac atgcttgagc agtttgacaa ccctg 455

<210> 7665
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F2

<400> 7665

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tttgggggtca agagtggcgc tgatgggtgaa ggtaccacca gtgccatcct ccttggcgga 120
caccttctta gtctcaggtg gagctgccat tgccttctta cacttgccga tggagctcga 180
tggcgcgtcc tcgacgggtg cgcggcactc cgaggaggtg cgcttgccgg agtaggcata 240
agagctcttg ccggacttgg tctttttctt caccocggga gcttcagcgg caagtgtcct 300
ccgtttctgct gcagggtgctg cttcccggtg gatcttgcg gcacaaataa gagcatcctt 360
cttgtcgcca gggacagaga tgacacttat tgggcctggc attttcagta cgttgtacac 420
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<210> 7666
<211> 423
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-028-Q1-E1-F3

<400> 7666

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gaaccgtttt cattgttaga tttatcacct tgagatattc gaaactggat cccaagttaa 180
tagatttcca tgatattgtt tccatagaaa agttgaaaat aaaaaaatc caaaagagtg 240
aatacccaaa aaacaaaatc caaaaaggc caaaaattgg ttcattgcaa aaaaatgatg 300
aatactgaaa aaagaaggaa aatattgaat catggaagaa cggtttgcag ttttgcactt 360
tttttgaag cacatgatgt gcttttccta tttttgaaga agcataatta aatttgtgct 420
ttt 423

<210> 7667
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G10

<400> 7667

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gttactggta tatcgagaat gcttgctcta aatgatggat atggtaaga ggaagggatt 180
gacgaggctc tcaaagtaca tagctagtga ttaccatcag catccaacgg aatgatagtc 240
cttcgttaac accgatgagg ttcattcaatg aatggtatat gtacgcatct tg 292

<210> 7668
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G4

<400> 7668

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cagttagtca aggcaatgcc gagtcttatt ttacaaaag tccaggaaga caattgtact 120

tcgtcaacat gtgccatttg cttggaagac tacagtgttg gtgaaaagat aagggtgctg 180
ccttgctgtc acaagttcca tgctgcttgc gtggacctgt ggctcacatc atggaggaca 240
ttctgccctg tatgcaagcg agatgcaaat gctggaatgt caaatttccc tccatcagag 300
tctacccctt tgcccttctt tgctattccc ttgccagctg aatcgacagc tttgtcttct 360
tttcgttcaa tggtagcagc atctcctcca aggacaataa g 401

<210> 7669
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G8

<400> 7669

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cccaatgccca tgaatgctgc tgaaataaca gataagcttg gtctacactc tttgcgtcag 120
cgacactggt atatccagag tgcttgcgcc acaagtggag agggctctata tgaagggttg 180
gactggctct ccaacaacat agccagcaag tcctgaaggc ttccaatgga ttggcagggc 240
cgcagaagca actagcggct ggacaaatga ctggaatatg taggcatgtt aaaatgctgc 300
cagagtgttg acatgtcttt gtaagctcga tctttgagct gttatcacac tgctactatg 360
ttgtatcaat gattgaatgt acacacgatg aaacccttta tgctg 405

<210> 7670
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G9

<400> 7670

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ccaatgccat caatgctgct gacatatcag ttaagcttgg tctacactct ttgcgtcagc 120
gacactggta tatccagagt gcttgcgcta caagtggaca gggcttagat gaagggttgg 180
actggctctc caacaacata tccagcaagt cctgatcgct tcgaatggat tggcatggcc 240
gcagaagcaa ctagcggatg gacaaatgac tggaatatgt acgcatgtta aaatgctgcc 300

agagtgttga catgtctttg taatctcgat ctttgagctg ttatcacact gctact 356

<210> 7671

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H10

<400> 7671

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 gagtacatcg acgccaccaa ccggcgcggc gacctcacct acgagctcgg cgagaatgag 180
 ttgcgccgacc tcaccagga ggagttccta gccaggtagc cgtcgctccta cgatggggtc 240
 ggtgatgata ctggcatcac gttgcctgtg ggcgggtggcg acgccgagct gtggtcgtcc 300
 ggccggcgaca atgatagctc cttggaggct ccgcctccca gctgggactg gagatccaag 360
 ggccgctca caccggtcaa gtcccaaagc gcaggatgcy ctacctgctg ggcgttcgtg 420
 acggttgcca cgat 434

<210> 7672

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H12

<400> 7672

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 acaaataata ttttggttaa tcacaggaac gcgattttgt gttgattcat tttgctgata 120
 atcaataaac aaattttcca gaacttccta ttttggtagg attttttagag ttccagaagt 180
 ttgcgttagt tacagattgc tacagactgt tctgttttta acagagtctg tttttcaagt 240
 gttgtttgct tatttcgatg catctacggc tagtaaaata gtttataaac catagagaag 300
 ttggattaaa gtaggtttta caccaaaata aataaagaat tagttcatta cagtacctta 360
 tgtggtggtt ttgttttcct 380

<210> 7673
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H2

<400> 7673

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aaataatact gaaccgagac cacttccaag ctagttcaag aaagggttagc cttgcgcggg  120
aactgctgcg caagctgctg agcaaggctg tgagaccggc ctagcatgtc ggtcatagct  180
tccaggtgta gctgttttagc gttgaggttc tcattggtgt tctccgcaat ctttcttaga  240
gataggactt caagtcaaag ttgagttgca gaatgccttt ctgctagaac ttgggactga  300
agaagtcgaa ctgattcaga caacaaattc tgtgagcttg tctgactgct agtctcaagt  360
aacttgaaca ctgcaacagg acaagacttt ggggttgtct cgctatcttc a           411
  
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<210> 7674
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H3

<400> 7674

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tttcttttat gcaccatgat ggtatgagat agtccttggt tgatttatag aatgctcatt  120
gcacttcact tataatctttt gagtatggct ttatagaatg cttcatgtgc ttcgcttata  180
tcatttgaag tttggactgc ccgtttctct tcatatagaa aaccgccatt tgcagaaaga  240
tcttttgctt cacttatatt tgttagagca tgggcatatc tttttagaaa agaattaaac  300
tctcttgctt cacttatatc tatttacaga gttgacagga attggtcatt cacatggtta  360
gtcataaaat cctacataaa acttgttaga tcactgaata tgggatgttt gattccttgc  420
aataattttt                                     429
  
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<210> 7675
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H4

<400> 7675

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tcaacgacgc cgtcttcacc gacagcggcg gcccacaacca gaggaagttc gagaaggacg 180
acctcatccc gcccagccg ggatcgtacg tcaccaggct cacacgcttc gccggctgct 240
tgccgtgcaa gcccggcaag ccctgctaaa cctaagtggc cccgccggcc ggccggagcc 300
gatcccttcc gaatcttcaa ttattgcttt gttcaattct ttactcaaa gattcgtgta 360
tgtattatgt attactagga catttgagta gtctacgggg gtcaagtccg aggaccctgt 420
aggttgttct tgtacctgca ttc 443

<210> 7676

<211> 357

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-028-Q1-E1-H8

<400> 7676

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ggcagtggcg cagtcattgg ttgatataga aagttttgga caccgagcgg aactcagtcg 120
agagcttata tatgaaaact agtgagagag agaagactat atttatgcaa ttagaagaga 180
actatataca ttgtttttcc cctaagctca ataaggtctg tgccttttgt ggactgcgtt 240
tcttctttgt agagacagaa catataatac tgaggattgc agtcaaattg aaattaaatt 300
caggtttgat actttaataa aaataacagc anaaaaaggg ggagagaaaa cgaaaaa 357

<210> 7677

<211> 284

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H9

<400> 7677

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tcttccatca tactttctcca tgcagtggca cactgaaggt gtacagatgc ttcacgggtc 120
aacaatgtgg aggctgtcgt gtgctcatat atatgtaaca tctctagata cgacacaata 180
tttatgccat ctataactat cacaagagat agtattgtct cataagctct gtaaggactg 240
atgttctccg tcgattgggt ctattctgtg tagcaacatc atac 284

<210> 7678
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A10

<400> 7678

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ttgatctgga ggatgcaaca tcagatataa cggctggcga tctcaagaag gtagtgaaac 120
ggctgtgtcg cctcaagttc ctctctctcc gagggcatac tgagatcgat catctaccaa 180
gttcattagg ggatctcagg cagctccagg ccttggacgt cagggacacc tccatagtga 240
ccctgcctgc gagcatcacc aagttaaaga agttgcagta cattcgtgcc ggccgtggca 300
ccaccgtctc agcactacct gcttcactct gctggttgcc cgatttctgc aagtgccgtc 360
aactagttga tgttcaagtg cccggggaaa ttgggaa 397

<210> 7679
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A12

<400> 7679

ggtaagaat taccgggccg acggggactc cgaattgggt gattcttttt tttgttgaa 60
actagatttc gtgcactttc caaccaatt ggaatcacct tcaaattcgt ccggagcggtt 120
gagttgtgca caaaacaatt tgatgctgca gcagaatccg agtcaaacta caagtccaaa 180
ggtgttacat cacctccact tgggcccatt agccttgtat gacctaaggt tagtttttagg 240
ctgccttggg acgtcctccc acctccttgg ccgccacccc ttctctctat ataagtagat 300

ccatctagta gctttttcct tgggatttgt ttagttaaaa gttagccatt gcaacttcgt 360
gtacttcgtt tgtgtccaac gaccagacca agaccactta cggattccca acctt 415

<210> 7680
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A2

<400> 7680

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cacgatccac gtttagcggtt tcatcggttg cactggcggc aggatctcgg aggcgccgca 120
gcattccggg ttccgtatcc agtcttccgg atatcgcggtg agtgtcttcg gatctatcac 180
gtgtggctct tatacttctc cttctcgacc tgccagtact gcctcattgt cgtcat 236

<210> 7681
<211> 435
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-029-Q1-E1-A3

<400> 7681

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ggctccgttc ggtgctcggg acggatgaag acgtccgtgg cgggcctcca ggacgtcctc 120
ccacgcgaag gcgacgacgg tggtcgcggt aatgacgatg acaagcgcggt tcaccgtgag 180
agtttccaag ctggaattcg agcgaaagaa gaagggggcg actggggaaa gaagggggaa 240
tggacgaggg cggctagggt ttctggttga cgcggttata ggccatgggg gagcacgtgg 300
aggccatcca tggccacggc agccgtggga tggatgccat gacctcctct gaacgggaag 360
aangggattg ccgttaagtt ggccctggact atgcactgta ccagtgggct acaagtgcac 420
agtagtagtt aggtc 435

<210> 7682
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A5

<400> 7682

ggaggttgag aagctgattg gcaggatagt gaagtggctg aagcccgggtg ggcataatatt 60
catcagggag tcctgcttcc accagtctgg ggattccaag aggaaagtga acccgacgca 120
ctaccgggag ccaaggtttt acaccaaggt gtttaaggaa tgccactcct atgaccaaga 180
tggaattcc tttagctttt ctctggtaac ttccaagtgc attggagctt atgtgaagag 240
caagaagaac cagaaccaga tatgttggct atgggagaag gtcaagtgca cagaagacaa 300
aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatcc tgcgttatga 360
acgcttgttt ggggaaggtt tatttcacca ccggtggatt cgagaccaca aaagaatttg 420
tggaacaagct ggatctgaaa 440

<210> 7683

<211> 461

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-029-Q1-E1-B1

<400> 7683

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gcatccaaaa cagacatatt gtatacgaag aatgttcatg ctgccaagag aagtgaagac 120
attgcccatt tgtcccctgg atgggctgtt aactagagaa caaaacacta tggcggcaaa 180
cgagactatc gaaccgaact gattgtactg aaaactagga cctaaacttg tgctgctggc 240
caaccttttc ttcagggaat gccagatat tcgccaacaa aagccatagg atggtgctat 300
acacagagga caacctatca gcaagtcggg ctccagtgtg tttgggtcag cgtccacgga 360
ggagcagata actgacgaca ttacgnctg ccgggttcac aatcctcatc acacatgacc 420
acaaccacc caaccgactg ttacaatggg cgtggagctt c 461

<210> 7684

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C5

<400> 7684

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gataataaga tatatcttct cctgtatggc aaaacttttg gggctcctga tggcaaacct 120
gtttggcatt tcccagaaaa agtgtacgaa aatgaagact ctttgcgttt gtgtgccgag 180
tcagccctaa aatctgttct cggcggactt gacaatacat attttgttgg caacgctcca 240
atggctcaca tggtaactga acaaaaagag gattocagtg tttcaccatt caagcggttc 300
ttcttcaagt cgcaagtgat cggcaccacg catttgagaca tcaggagggtg cgaagaccac 360
gcgtgggtga ccaaagctga gttgctgg 388

<210> 7685

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C9

<400> 7685

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ggctttgcac cttgatccag attgttttca tgcaaagcct gtcattgttg cctcctaatt 120
accacatcca ctaagtcagc tctatctctc tactactgca actaactaac tgtgatgatc 180
ttctccaggt tttttggctg gatactgaga tggcaccatt gtgctgctga agttaaaccc 240
tgtttattgg gacgtacaag cggggcggca gacacatgg cggcaggaga caagccatat 300
tttaccaatg actgctgcta ggattgatgt cctattgccg gagaaacaat ggcaacagtc 360
gcaccgtttt ttcttagttt ctttccaagg cactcaat 398

<210> 7686

<211> 344

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-D12

<400> 7686

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acaagtgcag aacagaagtc gaggtctcttc ttgtctgtta cttgtcgtgc cctcttccac 120
tctctcattt tgagtccctg tatgagcaac ggtacaagaa gactctcgac taccaaagct 180
gtggagttga tggctctggag gaactgctta acaagttaaa agatgttgtc gaattgaatg 240
tatatgagat cagcaacatg aaagtcatca aagccaagtc accaaaatgt agtccctcaa 300
agccatgtta aatagtgggt gtcctaatat cagtagtata gtca 344

<210> 7687
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-D4
<400> 7687

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tatgaaagct ggacaggccg aaagagatcc gtctcctttg cacgaagctg caagacttat 120
catgagcatg cagcttggca atggtgactt cccacaggag gaaatgattg gaagtttctt 180
gaaaaatggt cccttgtgtt atatggctta tcgcaacata ttccccatat gggcccttgg 240
agagtatcat agattagtag tttgctctgg cttaaactagt accttctggt atgaaggaat 300
taaatgtcgc tcctctgctg gcaatgctga aagagcgatg tcttgattta catgtcttga 360
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cataatagta taagactatg ttgtaatc 448

<210> 7688
<211> 323
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-E1
<400> 7688

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ctacctatta tggcatttcc atagccattc cgagatatat tgccatgcaa ctttccaccg 180
ttctgtttat tatgacacgc tccatcattg tcatattgct ctttgcatga tcatgtgggt 240

gacatcgtat ttgtggcaag gccaccttca taatttttca tacatgtcac tcttgattca 300
atgcatatcc cggtacaaca acg 323

<210> 7689
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F12

<400> 7689

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agttagtgc agatgatgtg aagagcacat cagagagttc attggaggag cctagcacgg 180
aggaattcca ggaggaagat gtctctgatg gagattcaga ctgcaacgac gaaagtaagg 240
ggccggaagt aaggcttttc atcagcggag tagttcataa taaagaggag gctggagcaa 300
aatcttatgt tcgagttccc gctgaaataa ataacctgga aagggactcc tttgaactct 360
acatccctgg aaaaggttct gatcgggatc tgagtgaac a 401

<210> 7690
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F6

<400> 7690

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cgggagtggt ttacatcac tgaacctcgc ggcaaaaagt gggtagctac acctgcattc 180
cattatgtcc ctccattaca acttgcattc tggattaata agggggccaga ctgggtatcc 240
gttgataaag tgcagacgct gcaaagccgc attcggagcc tcattgaaaa ggacaccggt 300
ctcatcaata taatccaagt aatgttagtc cgtcgggtcc taccgtgtca gcgacgtcct 360
ctctgcatgt gggaattcaa tccggaagga ccgtgaaccc ttcaaacact ctctggcacg 420
acgctccgag ggggtgtgaa attattcttc ggcgcac 457

<210> 7691
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-029-Q1-E1-G10

 <400> 7691

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cggatactag ccattttctc gtgaatgagg agcggagtc actcctcttg agaataacca  180
gcctaacacg gaagataagg gcaactctag ttgacatatg agctattcga gcatgcaaaa  240
cagaatgttt atttgaaggt ttagagtttg gcacatacaa atttacttgg aacggcatgt  300
caataccgca tataggaagg tatagtggac tcatatggaa caactttggg gtttaaggag  360
tttggatgca caagcagtat tcccgttag tac                               393
  
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<210> 7692
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-029-Q1-E1-G12

 <400> 7692

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ggcaacgggg agatcaggaa attctgcagc gcgtacgttg actaatggag ccggcggttg  180
gtcgatgtga gttggtgcgc gtgcctccat cgatcgatc gtggacgggg tcacgacggc  240
cgggtgtgcc gccagccgca aggcacttgc attattctag gggtggttag agaattgaca  300
ccgtcacacc gccacgcggc gaatcttccg gtgtatgtaa aaaaaagtcg tctctttggt  360
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<210> 7693
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G9

<400> 7693

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ccaactgttt tttttagcat cagtacagac acaagcgctc atatacacgc gcatacactc 180
accctatga acgcacacac gcacacctta cccctatgag cacctccgaa agacggatcc 240
ggaaacttat gatgatgcac gggcgcggtg cacgtctggc ccgaacgttg acgatggcgc 300
ccattttctg cagtctgcac cacattttat tgacctgcat tgtatttgta tgttgggcct 360
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<210> 7694

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H12

<400> 7694

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agccagtcga cagatcaaac aggcgcgtaga gagattcgtc gggctcaatt gccgcgactt 180
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cggatctctt gtgacggcga gcggcgggga gcaaagatgt tgcggggggc aaccgatatt 300
gagttgccgg ctgccacaga aggacaccgc gaatgcacgc gcaaaagtgc gtcgccccgc 360
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<210> 7695

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-029-Q1-E1-H4

<400> 7695

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gatggtgatg aggagaaggc gtgcgatgcc caggagcgag cagccctctg aagctgggcg 120
cgtgaaatcc tctggcgga tttttggata cgtgcgagaa tccagtggta aacaagagaa 180
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gaaggcaata gcggtgatg ccgctgtggt tgagggaact ggaggtgcga ctgaagcttg 360
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ggaggctgta ngaggtgcga cagaatc 447

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<211> 355
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-H6
<400> 7696

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ttgttccgaa cagaactcat ctattatcag tgttccgttg tcagtgtgta gtttactctg 180
catcggaact ttgttttact caacgaatgc atactgctat cataaatgtg tcaatgttga 240
tcgtagcatg tcatacctgt ctgactgata caatgatcaa gtagtccatg aatgataact 300
cctgtgtcat ctcagtttca atcatcttga gagcccatg gaattttctg cgtcg 355

<210> 7697
<211> 312
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-H7
<400> 7697

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ggaagaagat gaagaagaag aagaggaaga agaggaagag gaagaagagg aagaggaaga 120
agatgaagaa gaggaagagg aagaagaaga agacgaggaa gagaaagaag aggaagagga 180
cgaagatgaa gaagaatagg aagaagaagg aggagaagga gaagaaggag aagttggagg 240

agatggagaa gattggagga gaatgagaat atcgaggaga aggataagaa ggatgagaag 300
gagaagaatg ac 312

<210> 7698
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H8

<400> 7698

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gcaaccaagg acacatattt gattttattc aaccaactta tatgcattag agcatgtgca 180
tgtatttcaa atttgaatta tgcacataaa tgcattgaaa acacagttaa tgcataaaaa 240
tgtccaaacg aaccccgaaa aatcccaaaa attgacacaa cactcctgtt gttctatgtt 300
agcacgagaa attttttgaa agcaataaga gccatggata tcatttcgtc cccaaatgtg 360
ggacgtttcc ctacagaacc atcacacttg ttgtgagaag ctctgctttg tgagaagcat 420
atcccaaac ctgcctca 438

<210> 7699
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H9

<400> 7699

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ttccatggcg tccccgcgga ggagcggctg cactggcgct ccttcctcgt caagctcggc 180
gccgagaacc tcaagggcgc caagtccgag gagctcctcg tcgcctcca caagtcggtc 240
tccattgtgt ataccatgat cggggacgtc tgcctgtaca ttgttgcaa ggatgaatat 300
gatgagcttg ctttgttga ggtgatcttc gctgttacgt cggcgttaa ggatgtgtgt 360
gcgaaaccac ctaccgagcg cctcttctc gacaagtatg ggaagatt 408

<210> 7700
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A12

 <400> 7700

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 ttttcctacc aatctattcc cctaggagca tgcgtgttat actttgcttt gataacttct 180
 agatttttgc aataagtata tgagttcttt atgactaatg ttgagtccat ggattatatg 240
 cacttttccc catccttcca gcattgctag ccaactctaat agcgcgact tttttgccgg 300
 taacatacac ctaccatata gcttcctcaa aacaggcacc atacctacgt atcatggcat 360
 tcccatagcc attccgagat atattgccat 390

<210> 7701
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A3

 <400> 7701

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 ttgaagaagc ttggagtgc catgaagaat gatgagaagg acttgatggg caaggctctc 180
 atgaagcgtg tgatgcaaac ttgggtgcct gccagtcgtg ctctgcttga gatgatgata 240
 tttcacctcc cctctccttc aaaggcccag aggtaccgtg tggagaactt atacgaaggc 300
 ccccttgatg acatatatgc aaatgctatc agaaactgtg accctgatgg tcctcttatg 360
 ctgtacgtct ccaagatgat tccagcatct gac 393

<210> 7702
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-030-Q1-E1-A5

<400> 7702

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ctttaatcgg tcgtcgtaca gaacatacat atgcatgcgt ggacgcccac tgtgcacgct 180
cacatcccc gaaagatgca gagggtgcaga cgaagagaac ttgaagaaga aagtgatttt 240
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atcgaggcc taactctcaa gagctctgat gtgagggtgaa attgaactga actcaactcc 360
attgtgctca ttcacaggc cagtcagtca gagagtcngc gtcaacgtac cctagctagc 420
tgtccctagc cacc 434
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<210> 7703
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B2

<400> 7703

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catgcaagcg aatgacatgg taatgatggt gaataactgg aagacacctg gcgcatcgga 180
ctcggggcgt cacaactctc ctccactaac aaaagatctt gtccagagat cttaggaacg 240
agatggaagt gaaagagggt gaggtaaaac aagagctgaa gagagaagaa gaacaaagtc 300
gagaacactc gagggtgaaa gaggaatgat gaatatgatg agaataaaag ctcaaggatt 360
aaaatatact ctgaaaccac tcctgttaga acaagatata aaaggaataa gaatgaaaga 420
actgtgataa catctcggtt gga 443
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<210> 7704
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B5

<400> 7704

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aaaaaaaaa agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggcy gcccaaaagg 240
ttcaaatacta attaacccctt aaaggaaagt taaaaccctt tcaaaagtgt aacaaaattt 300
aatttaatgg gccttctttt aaaaagttct taacgggaaa aacctggggt taaccaaatt 360
aaaccctttt aaaaaaaccc cccttt 386

<210> 7705

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B6

<400> 7705

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tgtttaaaaa caaaaaata aagaggggaa cctaaaactt ttcaaaaggg aaagtgaag 180
tgagaaagac aagcattgtt gaagtgggag ctagctttga actttgttca tggtcacgta 240
aactttgtga atcttgatta cagaaacttt tcatcaaaaa aaattatccc cttgtacaat 300
tccattgtat tataaaaaata atgtgctaag gtttgctttt aggatgttta caatgcttgt 360
tggtttgtac ggtgcaggac agaaactttg gctgtagtgc gcgattttaa gttttatatg 420
gaacgtcaaa tggtt 435

<210> 7706

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-030-Q1-E1-C1

<400> 7706

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ataattaata gttcatcaca caattgaagt ataaagcaaa aactctatta aaaaccaaca 180
aactatgttc tcagtcaact ttgcaactac aattcatcat gttttcagga aggggtcgcat 240
atcggagcct ttaggcaagt ccacatactc aaccatcata tagtcttcta tgattgctaa 300
cactcacgcg gtacacatga gcaaaacatt tcaaccggac acatagaaag attggggcctt 360
atagtttgcg ctcccagcgt attcacctca aggggtgatgt caacanttat tattcatgct 420
atctatattc aactggacat atgtgcc 447

<210> 7707
<211> 412
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-C2
<400> 7707

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gcacgtttct gagatTTTTT taaaattgtt ttaccgagcg caaaagtTTT tgtttttcag 180
caagatcaaa tcaactatca ccgtaagcca tccaacgggt cttacttggt tcaaacacaa 240
attaaaacac caaaacacaa ttactactgt tggcaatcta ngaacngtgg tcncaacacc 300
tgcttgcttg cgccccgagg cgtggctcct ccggcgggcc tgtacgaccc atcttcacca 360
gcaaacattc aagaccctcg cgagggggcca agcctcacga ggcaaacgtc gc 412

<210> 7708
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-C5
<400> 7708

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gtcggagcag gacaatagcg gatacttccg gtacgtcgcg ccgtgcacct tctacggctc 120
 gcccctccca aaagaggaaa agggacagga gaagaagaag aagaagccgc ctcagttcat 180
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 gattgccttc aggaact 437

<210> 7709
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-C6
 <400> 7709

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 ttcttactca aacggagctt acgaaatatt ctgttcaagt tttgttgtgt gtagttttca 180
 tgtcatttgg gtagagaatt gatgtaattc attttaaaga atggattgag cctagcc 237

<210> 7710
 <211> 285
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-C8
 <400> 7710

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 aattaggtaa taataacact gcaaatcttg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa acgtaaataa aaaaaataa aaaaaaaaaa attaaaaaaaaa aaaaaaaaaa 240
 caatgaaaaa aaaaaaaaaat aaaaagagat gtcacgatag ctacc 285

<210> 7711

<211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-D1
 <400> 7711

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 cgctcacgag attagatgta atttttttta tagaagagtg attttaagtt gattattttt 360
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<210> 7712
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-D10
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 aataggatct atggttcgat gcattttcac ctcttttgtc tattcctata cgacacagta 180
 aaaatccagg tggcatagcc catcggccgc tctttacgcy tgccttattg ttatggattt 240
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 aggtattatt taacatgtga cttggatcag tcttatttca tactatcagt ttacgggcta 360
 cagaatgaag caattaaaga 380

<210> 7713
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D5

<400> 7713

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actatcggtt agtatcggtt gagcctaagt ttttgcttct tcacatgagt tgtgctatcc 180
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acttatatct ttcagagtag tttgtcattt gctctagtgc atcacttata tcttttagag 360
catggtggta gttttatttt gaagaaatag atgaactctc atatttcact tagattattt 420
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<210> 7714

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D8

<400> 7714

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<210> 7715

<211> 361

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E12

<400> 7715

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 gttgtacctg agaggccatt cctttcattg cctaggaatg attttaagtt ggtgcatttt 180
 ggatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
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<210> 7716
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-E5
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<210> 7717
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-F12
 <400> 7717

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<210> 7718
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-F4
<400> 7718

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<210> 7719
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-F7
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<210> 7720
<211> 385
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-F9
<400> 7720

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cgtctagttg aaattgagat gtgagatcgt gcatgccaac tcggatgtat tgggtgcgtgt 300
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<210> 7721
<211> 390
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-G10
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tcatgcagtc tgccaagggc tcagcttggc gattcgtcga gcggctcctt ggattcgtcg 180
gatgtgaata gtgcttcact tccgacgggt tcctccctgc tccctgcgga cgacgccgag 240
gtggagtccc aaaagggact aaaccaggag gaggttggtc tggagggtgcc gcaaggcatc 300
ctcctggact ccaggcccaa agggggtaaa gcccagtggt gatctaagtc cggccctggg 360
ccggacactg ctacagaacc atcaacggtt 390

<210> 7722
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G11

<400> 7722

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tccccgggtcg acggggggcgg cttctctgtg acttgtcacg tggcggatgt gaccggaaat   60
ggggagaaat ccttggtcgg cctgctgctg gccagatag cagtgcgct tccgctcgtc  120
tccatcatga tgtgatacgt ctccaacgta tctataattt ttgattgctc catgctatat  180
tatctactat tttggacatt attgggcttt attatccact tttatattat ttttgggact  240
aacctattaa caggaggccc agcccagaat tgctatTTTT ttgcctgttt tacgggttcg  300
aagaaaagaa atatcaaacg gagtccaaac ggaatgaaac cttcgggaac gtgattttct  360
caacgaataa gaccggggag acttgaacc tacgttaaga aaga                        404
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<210> 7723
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G12

<400> 7723

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tcggcaggat ggaggtgctc accggcgcca actgggagat caggatattc tgcaccgcgt  120
acgttgacta atggagccgg cggttggtcg atgtgagttg gtgcgcgtgc ctccatcgat  180
cgtcatgtgg acggggtcac gacggccggt gtgcccgcca gccgcacgc acttgcat  240
ttctatgggt ggtagagaa ttgacaccgt cacaccgcca cgcagcgagt cttccggtgt  300
atgtaaaaaa aagtcgtctc tttgttcttg accgagtgcc cattgagatt tg                        352
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<210> 7724
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H11

<400> 7724

gtccgggtcg acggggatcc aaatatgtta gtattgttga gaggacttgc actagtgaaa 60
gtatgaaccc taggccttat ttccacgcat tgcaataccg tttacgctca cttttattat 120
tagttacctt gctgttttta taatttcaga ttacaaatac ctttatccac tatccatata 180
ccacttgttt taccatctct tcgcogaact agtgcaccta tacaatttac cattgtatcg 240
gggtgtgttg ggacacaaga gactctttgt tatttggttg cagggttgct tgagagagac 300
catcttcac ctaggcctcc tacggattga taaaccttag gtcacccact tgagggaaat 360
ttgctactgc cctacaaacc tctgcaattg g 391

<210> 7725

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H12

<400> 7725

acatgatcac cggtctcggc ttctacgagc cctactgggt catcgacttc gccaacgtgt 60
gcatcggtgt gcacctcgtc ggcgccctacc aggtgtactg ccagcccac taccgcccg 120
tgagagctg ggcgggcggg cggtggccaa actcggagtt cgtcgtccgg cagtaccacc 180
ccttctcggg caagttcagc ctcaacatgt tccggtgtgt gtggaggacg gcgttcgtga 240
tcgtgagcac ggtgctggcc atctcgtgc cattcttcaa cgacatcctc ggctgctcg 300
gcgcgctcgg cttctggcgg ctaccgtct acttccccgt ggagatgtac atctcgcaga 360
gcaagatgaa gaagtactcc agga 384

<210> 7726

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H2

<400> 7726

attccaaggt cgacgggcaa gttcaggggc tatgcgctct ttgtgtacaa gacacctgag 60
ggggcgcgagg cctcactagt ggactcaact aaggtaatcg atgggcaaca gctcttgtgc 120

aagctagcca tcgaggggaa gaaggggaag cagcaaccac aacaatctgg gcctgccggg 180
 caacagcaac catagatgct ccaggggtggc ccgccggaca tgacgggttc tgggcttggg 240
 ctaggtggag cgcagatggg tgggcaatat ggtggccctg ggaatggtat gccatcgttc 300
 ggcgcatttg gtggtcccaa cccatatgcg aacatgccat cgtccatgag tggcgggtgg 360
 ggagctgggt tgggctcaat gggaaatcag atgcattccc ggaatgggtt ctgctggggc 420
 tgggtgcattt ggcaccggcg ggctg 445

<210> 7727
 <211> 368
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-H4

<400> 7727
 tcgacgggct atgggaagag ttcacctttt gaggatttga cgacagaaaa tctaagggttc 60
 ttgtcgtcga agcaggcttt atctgatttg gctgttttcc gccagtatta tcaggaaaca 120
 ttaaagtcca agtataatcg ctcaggagta gacaattcctt ggtttgtgtt tggagggctcg 180
 tactctggag ctctcagtgc ttggttcaga ttgaaatttc ctacttaac atgtggaagt 240
 cttgcaagtt caggggttgt tcttgctgtt tacaacttta ctgacttcga caaacagatt 300
 ggggagtcag ctggtccaga atgcaaagaa gcacttcaag aagtaacaaag gcttggtgat 360
 ggacaact 368

<210> 7728
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-A10

<400> 7728
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 actacagcag cagggcttcg cctaaactcc gctacagtat tatcgaggaa tatggtggca 120
 gggggcaccg cacacggcta aggaatcgat cagcaggatc aacttgtgtc aacttgtgtg 180
 tttagaggtg cccctgctc cgtatataaa ggagtagagg gggggaggct ggccggccat 240

agagggaggc gcaggagagt cctactccct ctgggagtag gattcctccc cccaatccta 300
 gtccaactag gattcctcgg aggggaaggg agagaggggg gccggccacc ttctcctagt 360
 cctaatagga ctangggaag gggaagangc gcagctacct ttgggctgcc 410

<210> 7729
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-A11
 <400> 7729

gcccgggccg acgggcgggg ctgtcttgaa gagttgtatg cagcttcgcc atacacctcc 60
 ttcatcaaca acgacatcct ggacatctgt gcgagacaga aaaaattaag acttgaaaat 120
 acgttaaagc acaccacgca cgtggaatga aaaaaaggaa aaaaaagtga aacacagacc 180
 acatacaatt tcgacacgtt ctccatggag tcggttcctt gaaagggttac gccctgtata 240
 tctccacgag tcatggatat ccagggactc acgatacttg ttcatagtgt acagtgtgaa 300
 atgattccga ttccaatatg gtagcatgat ctatcaacat gtgaattaga cgacaaagaa 360
 gagcataaga agttagctac aagatgtctc agcagtttag aagacaacac tac 413

<210> 7730
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-A2
 <400> 7730

tcgagggacg cgtttcaaaa gctgaggctt tattacgaga caaagaggaa gaaaatgtga 60
 tgctgaagca acaattggaa cagtatgaga ataaatgggtc agaatatgag actaagatga 120
 aagttatgga agaggcatgg aagaaacagc tctcttctct gcagttgagt cttgtggctg 180
 ctaagaagag cctagctgct gatgacatgg tcacccgagc agctcggact gataccactc 240
 caacacatgc tcaatacgac tctgaagata caatgtccac agggacccat accccagaag 300
 ggacagagtt gaaataccaa aaccacaacc ctgaacctag agtggtgaca ggaaactcag 360
 ataggcgaat aaatgctgtg aatc 384

<210> 7731
 <211> 415
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-A4

 <400> 7731

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cggtcgagat agccgggtcg accggggcgg ataccaaac catcgacta tataataata   60
aggaataata aaagtaagaa aattagacaa gtatcaatcg caagtaagaa tttttttcct  120
ttcagaaaga agataagaac aagaggctca ccacgggtgg gccggcaacg aaatcggcgc  180
gggcgatcga cggcgggtgaa gacggggacg agacgtgacg gaccgctaaa cctagaaaaa  240
tctcggcgaa aatggagctc ggaggctcag tttcgagaga agaaatatta actactgtgg  300
ctcggacatt tcacgaaca cctcatgtgc atangagggtg agctagagca cccaaatgcc  360
ctcccctcgc cggccagcaa aaaacagagc agtgtggagt gctttgctcg ctgac      415
  
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<210> 7732
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-A6

 <400> 7732

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attcgcgggt cgacgggtct tccttatgag tggcgggtcgg ggacgagcga tggttttttt   60
cctaccaatc tatcccccta ggagcatgcg cgtagtactt tgtttcgatg actaatagat  120
ttttgcaata agtatgtgag ttctctatga ctaatgttga gtccatggat tatacgcact  180
ctcacccttc catcattgct agcctcttcg gtaccgtgca ttgccctttc tcacattgag  240
agttggtgca aacttcgcgc gtgcatccaa acctcgtgat atgatacgcg ctgtcacaca  300
taagcctcat tatatcttcc tcaaaacagc caccatacct acctatcatg gcatttccat  360
agccattccg agatatattg ccatgcaact tccatcatca tcatatacat gacttgag    418
  
```

<210> 7733
 <211> 354
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A7

<400> 7733

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gggtcgacgg gaggcgacag tggaactttt ggcgatcgtg gtggctttgt ccttgctcgg   60
tcgccgcatt tgacgtgcag tacatcatcg acgagtgatg tcaccgttga tctgtatgaa  120
taatttgtgt caaataaaag gggggaagtg actagtgaag taaaacgacc tgtaacttgt  180
taccctattc ttttgcaaat gttcagtcta atcatgccat aaacacgaac tgttcgcttc  240
atcaccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca  300
aaagataaaa agataaaata aacatgcata aaaaatcaaa aaacttctaa agtg       354
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<210> 7734

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A8

<400> 7734

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agggtctctt ccaagcagca aggtgtgcta agtatgatgg tattacagat ccacttaaca  120
tagaaatcct agcctgccga gatggaatgc ttctagcgaa agatttctta gggctaccaa  180
tctgttatca ctgagacaga ttgttctgat gccaaagtacc tgtgggaaat gaggaaggaa  240
ggacggtcac taggtgtgcg tattcttaag gaaatgcaag acagggttatc taatttttag  300
ggttttgagc ttcggtatat tagccgtatt tgaaataatg tagcacattg ttgtgctaaa  360
gaagctctag gcataggtcc agttcttttg gccgattct       399
```

<210> 7735

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-B1

<400> 7735

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catacaagga aaacaaattg gggctatttc aagcatgtcg aaatacaacg tgctctcaga   60
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tgaagccttt tagcctaccc gaacccctc cattaacat gatgtatttt tgaacatctt 120
 tgaaatgaaa ccaacttttg aaagtatgtg ggaacgcca tggttaagcat cgatgtcaag 180
 tttggatgat ctccgacacc gtatgcaagt tgcgacacac ccgaccattt atcgggtattt 240
 tttgattgaa aaaactccag aaaatgaaaa acttgtcaag aaccaagaa agtaggcatg 300
 gtgccctgag ttgatcatgc aataccatga aaaagaatta gggtcatttg aggaatgtca 360
 gaaaaaaaaag tgctctcaaa c 381

<210> 7736
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-B2

<400> 7736

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 ccacaacggc gagggcaact gctggaccgc caaggtgaca tgcgaggagg agctgatggc 120
 ggccattgcg acggcgaccg aggagaagaa ggactgcctg tgcttcatcg aggtggtggc 180
 gcacaaggac gacaccagca aggagctcct cgagtgggga tccaggggtct ctgccgcaa 240
 ctctaggcca cccaacccgc agtagacatt atactagatc tcgattttga tgatttgagc 300
 gaggcatttt cgatttacta gaatccagcg tacgtttgat tactactccc ttcgttccta 360
 aatacggatg tatgtagaca tgtttctaga cattttgaat gactactaca t 411

<210> 7737
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-B3

<400> 7737

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 agctgttgca tgcattgtgc ctgcgcagta ggctcatctt ttacagtctg tgggctgtga 180
 actggtaact aggaggttca atgtcagtc attttattga cactgctatt taatttttga 240

gagggatattc attgttcagc atgaattttg ctgtagtcgc acttgtatctt cctagagcat 300
gtaacagtcg tcacggccgc agatattgaa atcgatgaag ctacattcta tgtaaataca 360
tatatatata tatatatattt tcccgtaaaa aaaataccct tgaaggaaaa ttta 414

<210> 7738
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-B7
<400> 7738

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aatgtttcag acttaagcac acgtgaagtt tgctcaaata ctgtagtag aaatctgttg 120
ggtgaaacaa ctgatgggtg tttattagta atatttcagc acgattctgg ccctgtaggg 180
tcacattctt ttgaatctgc acgtcacttg tttattgtta ctactgctgg ataggctgtt 240
gccagcctgc ttcgtcaacc gaaggatcgg cataatggca gtcttctctt tgatatccag 300
tggagactag ttcatagtga tttccgattt attttggaga tttcccctga aggtaacatg 360
gggtttgaga gtgcacattt caatcgaagc catgaaatga ctcaatt 407

<210> 7739
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-B9
<400> 7739

gacggggata caaatgaagc agattaacaa ttggttcatt aaccaacgca aaaggaactg 60
gcacagcagc aacacagctt cctctagcga aaagaccaag aagaaaagaa acgttacagg 120
taatgacggc acggagcaat cgtggtagac cgggtcccag atgaaacaaa ctagatgtaa 180
actatacttt tatcatgaag attgctgcag tatattctct ccctctctct tttctggtgg 240
ggcaactaga tacgaagacg acccgttcac aagcaagttc aaaggcaaag aaggatatcaa 300
taatagttga ccaaagggtg tagcgactcc ggatgtacag tgtgagtgtt ttgctgatgt 360
aatttgtgta agcctgtgtt gtataaccga ggaacggaaa ggggcaat 408

<210> 7740
 <211> 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-C1

 <400> 7740

cgggtccagac taccgggtcg accggggggac atatttgaag cagtcgggatt aaacctgtat 60
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 aatactcgga gtagaaatca aatgggtgaa acaactgatg gtggtttatt agaaatattt 180
 cagcaagatt atggccctgt agggtcacct tcttttgaag ctgcacgtca aatgtttatt 240
 gttagtagtg ctggatatgc tgttgccagc ctgcttcttc aaccgaagga tcggcataat 300
 ggcaatcttc tctttgatag ccaggggaga ctagttcata ttgatttcgg atttattttg 360
 gagatttccc ctggaggtaa catgggggtt gagagtgcac atttcaagct aagccatgag 420
 atgact 426

<210> 7741
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-C3

 <400> 7741

gggtcgaccg ggagctacat ccggtacatg gggtcgctca ccacgccgcc ctgcacggag 60
 aaggtgatgt ggaacattct gggcaagggc agggagctga gccaggagca gttacaactc 120
 atcaccgcgc cgctgcctca ccaggacaac aggccgccgc agccgctcaa tggccgcaa 180
 gtcgccttct acaacccgcc aaacaccatc atctccatcc aatccctagt actccctccc 240
 taaactaata taaaagctta catttgttta cagagggagt acaataagca agacatagta 300
 catactccct cctcggttcc acaatataag aacgtttttg acactataca tgtcaaaatg 360
 agtaaacatc taccagaaaa aaaatcagga gg 392

<210> 7742
 <211> 390
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C4

<400> 7742

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ggattgaagt ctaatcccca tgacttcttg ttttccttg ccgaagcctt agcatactga   60
aagttgcgct tgaagagatt gtcgtcacga caccagagca atgatgatgg gtcggcttct   120
tcaggctgtg gtcaacggac catgcaagga tagaattctt gcgcaatggc ttcattcttg   180
ttcttggggg gaaggcctcg atagagaata tcacccaag ggctcttgat aggatttttc   240
tctgcgtagc cctgggtcac acacttgtag ttgtatcact gttcagccca atagcgtagc   300
atccattgga ttcgagtctt gcgctaattg taatcctctt caggatctgt tttgtacatt   360
tctgcaagat catcatgtag atcctttgaa                                     390
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<210> 7743

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C5

<400> 7743

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agagaaggaa cagcagcaag aagctccagc gccagctttc cttgcactat taattttagt   120
tgcctaattc gttcatcatt catccatcat tttgctgctg aagtgtatta attcttggtt   180
ctgcttacta gattccacct tatgcgctag ctgttggcgc aagtacgtca atcacctcaa   240
aatttagtag atttgaaata tcgttttcat tagccattag tctctatggt gaaagagttt   300
ctgttgaaga aatagctagc taggcctaca acttttccca tgtctttttg tttgatgtct   360
ggatgttatt ggaaacctta agtttctggt gaagaaat                                     398
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<210> 7744

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C6

<400> 7744

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tctcgagctt gccttgaacg acgactttta attacatcat tcattcagca ttcagctatc 120
aatgcgctgc tcaagtgtcc aagctcttag atcagcctac cacattcgac ttaacgctct 180
acctgttggc acagctacgt caaacaccac aaaatttagg tcaattgaca tgacgtttct 240
cagcatacac tagtcgtcaa gtcttgtgag tttegcatta ttcagcatcc aaccatgcat 300
acaactttac tcaagtcttg ctgtatgatg tatccacttc atgatcagcc ttgtctattt 360
cttcaagat 369

<210> 7745
<211> 325
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-C7
<400> 7745

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ttaccgggga ggaggaaatt gtgctatgca tattagtagt aaggaatgcg gctctcgttt 180
ccttgtcttt gccccaaacc agaagaagcg tactattaga cgtagttgct gaagagcatt 240
catggaatcc tcttccccctg ctgctacctt gtctctctcc cgtgtgtcat tgaaacatct 300
ttctttctgt gtgaaaaaaaa ataac 325

<210> 7746
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-C9
<400> 7746

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tatectttgt gggaacttca ttcaggacat gacataatgt caatatagcc tccccccacc 120
atgtcttggga taaacccgat gtatctaaca tgggtgtaac caaatctgct agagtatggt 180
ttttccgttt ggcaaccccg tttgactggg tgaataggga ggcgtcctct catgaataat 240

accatgttcc acactgaata aatcaaactc attagaaaag tactctccac cacgatcaga 300
 ccaaactcgt ttaattttct tttcaagttg gttctcaact tctgccttat agattttaaa 360
 gtagtgtaga tcctcatcct tagtatttaa caaatacaca tagcagaatc tagtggaatc 420
 attaataaac aac 433

<210> 7747
 <211> 350
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D1
 <400> 7747

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 ttaaggtcat gatggccaag tgatcccgcc gatgtcccg gggacggtgg tattattatt 120
 ttaccgggga ggaggaaatt gtgctatgca tattagtagt aatgaatgcg gctctcgttt 180
 ccatgtcctt gcccacaaacc agacgacgcg tactagtaca cgtagttgct gaagagcatt 240
 catggaatcc tcctcacctg ctgctacctt gtctctctca cgtgtgtcat tgaatcatca 300
 ttcattctgt gtgaaataca gtgagacgcc agaagacgcg cacggaacga 350

<210> 7748
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D4
 <400> 7748

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 aacaacaaaa aaattccggt gcccataac caccaaacct aaggcaggat ccggtgataa 120
 taacatctgg acagacttac aaaagagaat atattgagaa atgggttcatt gagggataca 180
 acacttgtcc caagacacag aaaaagctag aaaactttgc gatgattcca aatacttgca 240
 tgagggatct catttgcaat tgggtgcagag agcatggttt cacaatctca gatttccttc 300
 caagcaaaga ttctacagt tacttgccag agcaattgca tggtcactca atgtcaagtt 360
 tgcacaatgt ttcagtgcct ctaattgctg ggaatgccag aaattttgtg attgaccaca 420

gcagttcatc tgtcgcgttt tc

442

<210> 7749
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D5

<400> 7749

aattccggtc gacggggcat gggaacctta ttcggaacct atgcgggtgg tttccatggc 60
gaggagaggc tgggaaagct tggctatctc gttggaagcc agctaggcag ctgggttggg 120
ggaagaatcg gactgatggt ctatgatgtc atcaacgggt tgaactacat gcttgagttt 180
gtccgtccag aggagtatcg atcatcatct tacgcaacat aagagggctc agagtatgca 240
gataactaca gaagttcgcc ttacgtatca gaagagggct cagagtatgc acataactac 300
agaagtcgcy aaggatatga gccaacatac agtgagacgc cagaagaggc gcacggaacg 360
acggggtgaa gctgtatgtg aacaacctgc gaagcgcaca ca 402

<210> 7750
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D6

<400> 7750

attccgggtc gacggggcggg atcatgatca tgaggaatat ataggataat aaggtggtgt 60
attaccacca tgcccgttga gctgatgttt gtttcagcta gagaaatcgt tacgcccgt 120
cataattcct ttttcgacgc tctggagaat aataactact ggtatatcat tctatatcaa 180
agccggcttg tgaaataaat gatccgccgt cttgccttca aaaaaaaaaa aaataaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 300
aaaaaggcaa aaaaaaaaaa tacgggcctg ccataagggt ttcaagggtta atttacactt 360
cttcgaaagt tcaaacttct tctaaatggc cgccaatttt taatta 406

<210> 7751
<211> 402
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D7

<400> 7751

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gtagagcta atcttgatat ttgtattagc atgtttgagt tttgcatgta gtctagtcta  120
gtgtgggtgtt cgtccgacga aggcttcagg tgagcgcgcc aaggagggtga gatgccagga  180
tgccgtgtga ggcggcgagc acggcgagat gccgatgggtg ctgcgtgaga agcgggaaga  240
cgtatcagag gctggagccg tgatggactg catcaaattg ggtcgggtga accggccggt  300
cgttctgttt gttggactag ctgttcatgc gtgagttcgt ttagtcctag ccgagagtat  360
cgttgctagt agttgatgca tgcatttagt tggcctggtc ac                        402
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<210> 7752

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D9

<400> 7752

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tgattcaaga cccgtcgtcc agagcatgtt gaatagggtc ctacaagggt tcaaactatc  120
tacctcgtca ttcacactgg gtgatacaca taacagagta atagatacta actctgacac  180
aggggaagct aatattcaca atggtccttc tagtaatgat acaatggcac ctacatcttt  240
gcacatgtac aatctccaac atacggagga ccgattctct ctacatattt aaatcatgcc  300
agacctccta atattgtcat aaataaagat ttgattcctt gagtgtatct cttcaagcgt  360
catttaaatac atgtgaacaa taaacttttg agaatcat                        398
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<210> 7753

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-E1

<400> 7753

gcagacgaga tagattatga ggggtgaacaa gactacctcg actttttgac tgctaagcaa 60
 cgttcgcatg tccgccccga tgatgggtact gacgccgata cccacaccga cagcgcccg 120
 accgatggcg gcgccgatac cagtggggaa ggtagcatca tggaagatac cggctccgat 180
 gccggtaccg gtaagatgca taagatgcag aggatataac agcctgacat actacggatt 240
 ggaccacttg tgatcaccat catggcacct ggcatgtttc agacttgcat gtagctcgat 300
 tttctagatg atcacgcgat acttctttgt gtcggatgat gatttatact agactatatg 360
 tatgtcaatc ctatgattac 380

<210> 7754
 <211> 306
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-E10
 <400> 7754

gacggggagt cgaagcagga gaggatcgag aagctgccgg aagtggagcg ggcgttcgtc 60
 catgcggact tcgagaccac ccataagccg gagcacacgg tccggagcag gctgccggcg 120
 accgagccct gacgatggca ccttccgctc cagcattcgc cagatcttgt acagcgaaaa 180
 tacacgcctg aagctgcagt gttcttgttg tttttctctt gcgctgacct cgaaaaacac 240
 agcgacagag ccattctagaa gatggatgtc tctgtggaat aatacaggat tcgccatttt 300
 tatggg 306

<210> 7755
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-E11
 <400> 7755

gacgggaaac gtgaagcggg acggacgtct ctctggaaca aagatacaat agccaaacct 60
 gagtacggtc gtatccaaca gagacgtaca tcataactat ctacatatcc atcagtatca 120
 actaaggggt ggtggaatth aacagcaaca tgccagcttt gactcagtgg ctaacatgat 180
 ctagacggca cgtaactctt ttgaggtggc gcacacgagt ccacatattc accatatcaa 240

tacaccacta tggatccgct cccgtctccc tacgataacg ccatccagag cactcacgct 300
 tatcttgcgc attttacaat atccacttca agttatctat gaactgtaca tgcaaccag 360
 atgtccttta ctgcggacgc ggctaatacc 389

<210> 7756
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-E12

 <400> 7756

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 catgatcatg tagttgacat cgtattttgtg gcagggccac cttcataatt ttcatacatg 180
 tcgctcttga ttcattgcat atcccggtag accgccggag gcattcatat agagtcatat 240
 cttgtttctag ctttgagttg taaatcaata aaagtgtgtt gatcttcatt attagagcat 300
 tgtctcagtg aggaaaggat gatgaggact atgattcgcc cacaagtcgg gatgagactt 360
 cggactttac aaaanaaaga gagaaaggcc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag 420
 cggccgc 427

<210> 7757
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-E3

 <400> 7757

cggtcgaaaa tccgggtcga cgggcttatt gatcgattca aattcatgga accgtatttg 60
 agaactgccg accttttaga accagtgcac cttatgtaca aaggaaactat gagagtgtg 120
 cttgtactac tccatgactt tcctgaattt ctgtgtgatt atcacttcag tttttgtgac 180
 gtgatccctt ccagttgcat tcaaatgcgc aatgtcattc ttagtgcttt tccgcgcaac 240
 atgagacttc cagaccatc tactcctaac ttgaagattg atctgctagc tgaaatttca 300
 ttacctccac gaatcatgtc agatgtcgat ggtgccctca agttaagca tatgaagggt 360

gatgtcgatg agtatcttaa gagaccagaa ggctcatcct ttttgaatga tctgaagcaa 420
aaattgctgc tgcct 435

<210> 7758
<211> 429
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-E4

<400> 7758

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ggaaaagggc catgtacgac gccgggctct ttgatccctt cgacgacgac gaccaggatt 120
tctcggactt catgcaggag atgctgggtga tgatggatag cgtgaaaaac gagaagccgg 180
acacgctcga agacctgcag aagatgctgg atgacatagt caacggcgac ggcggtagcc 240
gcgccactgc tgggtgctgg gtagcggcg gcgggtgggtg tggctgcggt ggctcgcgttc 300
caccggaggc caaccgcaga actcgtgtcg ccccttacc gcagccttcg cgaaggtgat 360
ggacgcgccg gtgctcgtga cgtgcacgca ncgctgcgct tgtangagag agatcagagc 420
aagaagaga 429

<210> 7759
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-E5

<400> 7759

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aagggatgta tgaccattcc aaggaagtgg ccgaggccat gctcggggaa gctaattgtga 120
aggtggctcc ccggagcatg ggtgggtgagg acttcgcttt ctacgcgcag agagcggcgg 180
gtgcattctt cttcatcggc gtaggtaacg agaccgccat ggatagtgtg catccggtgc 240
actccccgca tttcgtctc gatgaggggtg ttcttctat tggagccgcg tttcacaccg 300
cggttgccat tgagtacctg aaccgctcct ggaaactaca ggagcatgag tgaaggtccg 360

ttcttggtatt atggagtgaa aatcctctga tgtccgtata gtattagata tccagaatcg 420
tcttcatttg 430

<210> 7760
<211> 345
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-F11

<400> 7760

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gagactgcgt cgtctatctg ctaacttcat ctccgttcaa tggccgtcca cttacagtcg 120
tgggacagcc aaggacagtc acctgacgct ggtggctcac catctgacac cgccgccggt 180
cctgacgtgc ccggacaaga acttgatcca ccagggttggt ttctccaact acttgaaccc 240
gctggggatc tgctgcaact acaccgttgg caaatgccac acgccaagg ccatcgagat 300
tgtgcacaac gtgtgctga cgaatacgag ctgctgctg gccgt 345

<210> 7761
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-F2

<400> 7761

gaccggcaag agtagtaaca aactgaatt tccccattgc cctgaggcc ctgaagacgc 60
aaccttgtgc tggacggaca aaatgtttca tgtaaaattc gacggctttc gcttctgctg 120
tcgatggtat ggcgaaagaa aagtaggcat actgtatata ccagctgttg tgttacttc 180
actggctcta gggggcatgt gatgtaaatt atttctagcg tatgttctcg aaaggaaaaa 240
agggaaattc cgggtgcctc tagacgggca ttgagatgca tatgctgtac tgtgaccgag 300
agtagccgat tcagagagat accattttgt gatgaaaaat aacttgcgta aatcgggtgga 360
tttgtggatg taacaaaaaa acacgaaaat tgcaaaggcg cgtaagtga tatccacca 420
ctgtccagat acacagttta aaa 443

<210> 7762

<211> 316
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-F3

 <400> 7762

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aacacaactg gatcctcctg taacggagga gattatgata cctattaggg ccggttcttc   60
atcaactggg acgccaaggt gctgctggat catgoggacc gcatgctgat gctagccagg  120
ttggcctttg aaggctcagc tattgctgtc aaagtgtcag gcatatactg gtggtacaaa  180
actgccagcc atgctgctga tctgactgct tggttctaca acccatgtaa ccgcgacggg  240
tacgctccaa ttgccaagt actgaaaaac catggtgctg ctttgaactt cacctgcgtt  300
gaactgcgca ccatgg                                     316
  
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<210> 7763
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-F4

 <400> 7763

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cgggtccgtgg cgctcaacag cgaaggcctt gagggctctag taccacgggc aaagctgtta   60
ttatcacttg gtggtacttt tttcctggca tttggctctc tgattattgt cacggtttct  120
ctatttgctg gtctttatct gtattttggg caaagctttg tacacgacgg gagcaagaaa  180
ccagtcgctc caccaccata cattgacca tatgagctac tggaagatga taggatctcc  240
cgccctccc ttgatgtgtt ctgaatctcc acgacaaaag gatagtattt gtagatagct  300
caataatfff cttgttttac tatatatgta cctgtaaatg caatagctgt agactgttat  360
tatccggaat ttggcaatgg ctcgtaggtt catattcacc ca                               402
  
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<210> 7764
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-F6

 <400> 7764

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gtctagtacc acgggcaaag ctgttattat cacttggtgg tacttttttc ctggcatttg 120
gtcctctgat tattgtcacg gtttctctat ttgctggctt ttatctgtat ttggggcaaa 180
gctttgtaca cgacgggagc aagaaaccag tcgcgccacc accatacatt gacccatatg 240
agctactgga agatgatagg atctcccgcc cctcccttga tgtgttctga atctccacga 300
caaaaggata gtatttgtag atagctcaat aattttcttg ttttactaga tatgtacctg 360
taaagtcaat agctgtagac tggtattatc cggaaattgg caatggctcg taggtgcata 420
tgcnaccatt gtctanatac acat 444

<210> 7765
<211> 394
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-F8
<400> 7765

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caccggaag ccatagtcca ttgtggtgaa gcgtcatggt gtcgttgagg gcctccaatt 120
gagttgtgga gattgcccc aacctggttg taaagggttc gtcgccgcct ccaagggcac 180
caatagtgga atcacggcat ctgcattgt gtgagggcgt gaggagatta cggtggccgt 240
agtggcttct tggggagcat tgtgcctcga caccgctcca acggagacgt acttcatctc 300
agagggaaatg aacttcgga acacatctc atctccaacg cctccactct tggttgtcac 360
gtgcctttag ttgtggcagc gtagttgttt caga 394

<210> 7766
<211> 396
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-G1
<400> 7766

cgggtcgacg cggtgttgg taaagcattt acctaagtta tggaaaattc ataattcatc 60

agttatttta gataatacta aannacagga tagagtaaga tacaaaaagt ggtaaaagaa 120
aagtgggatt tcatcaagat tgattacaat gaagtcccct aaatttcgga aatcaaagag 180
atttggttgt gggaattggt caatgagtta agtaataata ataagaacta gatcatccaa 240
accattgaa tgaaaaaatg aaattcgatt ttcaaggaaa tttttggata agagattaat 300
aaacaattga attgaaaaaa aaaaacttca ttctaatttg gataatttcc ttttcaataa 360
gaccctcttt ttggagtga cgcgcgaata ttcccc 396

<210> 7767
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-G10

<400> 7767

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ggcgtaccac aaggagggca tgatggacaa tcatcaagga ccagatcagc ggcgacggcc 120
atcgccacgg cagcatggac ggcgaccacc acgagaatag tgacaacact acacactacg 180
acacgatgca cggctagggc cacaaggacg accacggcca ctgcagcagc atcagcgaca 240
gcgacagcga ctgagccatc tccggccgcg ctccggcagc atcgtgcagt gtacgctaga 300
tcgatgaacg cttgcgagat gtgtgccatt catatatgtt gcatggtttg g 351

<210> 7768
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-G12

<400> 7768

gacgggggatg gcaggttaaa atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaaa 60
aagataaaaa aaaaaaataa acaaaaaaac aaaaaacaca aaacggtcaa aagcgatacc 120
taaaacttaa ttcaacggcc gttcgtcttc cagggtctcc cctgggttca acttcgtcgt 180
ccgtcgtttt aatcgccttg caccgggtca ccctttccct agcccgctc tgccccgctg 240
cgccctttcc ctttttctc cgctgacgtc tctccgact gggcccccac ctggtcccc 300

ttccgatccg ttttttacct tgccgggggt gtggaacact ccccgtaacc tgtccgtttc 360
 cccccaccgg ctccccgc 379

<210> 7769
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-G2
 <400> 7769

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 ggctattacc tgggaatacg atcctctgtt catcgctggt tccgacgaca actagagtct 180
 cagggggtac tatctacaca gggcacacct agcatgtgca ggactatcat acattatattt 240
 acgtacctca aagcctgtca gtagactcat aaaagcttca tgcaatctgc tttcgacgga 300
 cgagattctc tccatcacct tattcatcag cacacgggtg tcatctgaga tggccgctcg 360
 cccaccaaac tccctcagaa catccgttca cacaccagac ggtgccggac tcttttttcc 420
 gctctct 427

<210> 7770
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-G4
 <400> 7770

aaaattgatt tgatccccgt aggttaaccg gttggttgta aggcggccat accaattgcc 60
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 aactgttcga tcgatggcag agtttcgtcc gctattctaa attgctaaat gcacacaggt 180
 ggggcctgag ttttatgtgg acgggttagat gcctaattctt ggggttgtag tttgtcttgc 240
 ttttcccggtg tacgtttatt tgggtgggca tagtgaagaa tatgtttgat tgtttaatag 300
 tataagtaga gaagtagaga tttgtctttc acctggagat tcgatgtagc tcgggtctgag 360
 catgagtgat agcagtcttg tatcttatgt ttaccatgca aattttac 408

<210> 7771
 <211> 260
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-G6

<400> 7771

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 tttcagggtg ctcggtgaga ttttacagtt tttcgtatct ttagatcgag tctattcttc 120
 gtacctatag tccacgaaaa agcgaacggc tacggttagt tcacccctagc cgaaccaatc 180
 tgagcctttg cataagcctt tctgaatatg cgggtgcacc atcgtgtcga gttgctcgtc 240
 ctagcgtcga gtcctttcaa 260

<210> 7772
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-G8

<400> 7772

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 gatcctaggt acgggccgac agtccgacac cgacctacga cgtgcgatcc aggaggacca 120
 cgtcggccga tcaatcaatc agacgaatta ctaccacggg aataaggggt gcagtgggtg 180
 gtgattaact cgcaccgcca tgggggctct gtcggtgacc gtgtgatggt ccaccatagc 240
 ttccagaaga tttcaagaaa cgtctcgttc tagctactaa tttgacacgt atagatcttt 300
 cgtgtatcag caccgatccg taaatggggc ttccagaaca catcgatcca ttttgctcgt 360
 gccaaatgcg ggcaagtctc acgtccagaa gcaggaaaag tagagcgatt aagaaagcag 420
 tcggaagcan atggcaattg gcaagcttac a 451

<210> 7773
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H1

<400> 7773

caagaaagga ttcagtcaaa tatatcatca gtatcaatca ctatatgaca ccacacaaca 60
gatatgctgc tgtcagcagt gctctctaaa tagacactgc aattatctta tacatcatta 120
ctgttgctcag caatgctctc taaatagaca ctgcaattat catgtacatc attgctgctg 180
caataaacca ctaagaatta ttcaatatct agcctagcgc cttcgttatc atcaaccgag 240
ggttgaggcg gagttacaaa atctgaatga gaaaccaagg gattgtccaa gtcagcgaca 300
tctttgttat cttcagagct gttagaagca gctgagatgg cgtcaccgga ttctgaatgt 360
gttctgtcca catatgcttc gggtaaggag ctctcggcca ca 402

<210> 7774

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H12

<400> 7774

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atttgacgtg cagtacatca tcgacgagtg atgtcacctg tgactgtatg aataatttgt 120
gtcaaataaa acgggggaag tgactactga actaaaacga cctgtaactt gttaccctat 180
tcttttgcaa atgttcatgc taatcatgcc ataaacacga actgttcgct tcaaaaaaaaa 240
aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaagggg gacccccaaa agttacaaac ttaaaaaaaaa cggggccccc 360
caaaaggctc caccctaaat tccccctcaa tgcaaa 396

<210> 7775

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H3

<400> 7775

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gcgcattccc atgatcagat tccccagag gcatctcaaa gtcccatccc cagcagcggc 120

gcagcctgca gaccagcacg cgaccctcat gtcccattg ggagctaaag tagaggcacc 180
atcttctgga gagaaaaaga attaccgctt tagatcagat gtgccttccg caccttctca 240
taatgctgtt ggagggccag cttcacagct tccaagcgc aaaccactat ctgaggaaga 300
gattgaagct atcatgcaag gcggtgtctt ctgatattgc ttccggccag tggcaccttt 360
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<210> 7776
<211> 449
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-H4

<400> 7776

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aattagaatt tttgggtgga gagtagccac aaataccctg gccacaaaaa gcaacaaatt 180
taagaggacg ctcgaggtgg actcgacttg tgacatttgt ggcaatggcg tggaggatga 240
acatcatgcg gtgatcaatt gctcgaacag cagggccctt cgcgttgcca tgaggaagga 300
gtggtctctt ccatcagaga aatccttcag acatacaggt anggactggc tacaggcgct 360
tttggaagaa gaaacagagg aagtttagagc aaaaatctta atgctgctgt ggagatgttg 420
gcacttgaga gaagatatcc taagacaca 449

<210> 7777
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H5

<400> 7777

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tgaaataaac gaaataacgc tcttggtcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aacggaacac ccaaaagata aaataaaata aacaccaacg ataacaaaaa taaaacaaaa 300
 aatcacctca aaaacaaaaa aaaatagacc aataataaaa aaccaacaat caagaaaaaa 360
 acctagtaaa tcgaaaataa accttatcac aaacaaaaca cctattcaaa aactctgaaa 420
 aacaaaaaag gcaatcaaaa 440

<210> 7778
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H6
 <400> 7778

gcaacaagaa atactaagcc aaatgagaaa aagattccac ggatgagata ttttatgata 60
 acagatattt ttaccacaa ccataacatt aaagttgtct aacatgtaat caagacttca 120
 agatatagct ccctttgcac caagagttca acaaaacagt ttgcaggcag gaaaagttaa 180
 agtctagaa aaaatccttt atgaagttcc catgactaaa aagattcctc aatgaagttc 240
 cattagcacc aagttataac ttttactgg ctaattaagg catgaatgat acccagcact 300
 aaaaaatta cgacctetca aacaacaaca gaacagaaac tttatatgtc cattggccta 360
 gagcaaggaa gaacctctat gaagttggtg gaaaaggtaa tgtaagttgg gtggaacata 420
 gatcacatac ctgaatctaa tac 443

<210> 7779
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H7
 <400> 7779

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 atcacagata ttttttacca caaccataac attaaagttg tctaacatgt aatcaagact 120
 tcaagatata gtcctctttg caccaagagt tcaacaaaac agtttgcagg caggaaaagt 180
 taaagctcta gaaaaaatcc tttatgaagt tcccatgact aaaaagattc ctcaatgaag 240

ttccattagc accaagttat aactttttcac tggctaatta aggcatgaat gatacccacg 300
 actacaaaaa ttacgacctc tcaaacaaca acagaacaga aactttatat gtccattggc 360
 ctagagcaag gaagaacctc tatgaagttg gtggaaaagg taatgtaagt tgggtgg 416

<210> 7780
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-H8
 <400> 7780

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 atttgcataa atgccatggt aaaatgattt atttcataac taattaacca taactccgaa 120
 ttaaataaac tatatatgta aattgtctag aaaaatgcat agattaacat ggtgcacttt 180
 gttttattgc ttaacaacat taaaatatgc tttagggaga acagtagcta attaaaatat 240
 ggacatgagg attttctgga attggtgttt gttgttccgg cctcatttaa acttacctag 300
 atatgttggt ttattatgct tcacctcttg ccatgtttaa caacatttaa tattgtttgg 360
 tagcttgac gagattaaac taaatatgtc aatgtggtgt nttgtcaata tgcaacttgt 420
 tgcattattga gct 433

<210> 7781
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H9
 <400> 7781

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 tatcaagtgg tatcagattt ccagggtgct cggtgagatt ttagagtttt tcgtagttta 120
 gatcagagtct gttcttcata cctacagtcc acgaaaaagc cacaaaataa aattaggggt 180
 agttcatcat atccgaacca atctgagccg ttgcataatc tttttagggt tttgctttgt 240
 tgaatttgcg gttgcatcgt cgtgtctagt tgctgggtctt agagtctagt ctttttagagt 300
 ttcgagttct ggtcagaagt tgtcacgccg ccgccgcacc atcatcatcg cccctgccat 360

cgaccaccac cgctccgaaa ctgtatccat ataccatcac gaatccgtgt ccatatatca 420

<210> 7782

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A10

<400> 7782

gggtcgacgc ggagatgtga atgaaggag gtcggtctga gttgcagaaa agcatgggac 60

tacgcaaccg atgacgaaca tttgcactga gagtgaagag cgagggccac gcccttgcg 120

aagatgccgc cgtgcatgta atctacaaag aagcctacat gatcaacgcg ctagtcacgc 180

atgcaataca gaatgtctat ttgaacgctt acagggttcac acatgcagct ttagttggca 240

cggaaggtag agacagtatc caggtaggta cgggtggactc agattgaaga actttggcgt 300

tcattgcagt gcctgaggac acagtagacg cgcttattac 340

<210> 7783

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A11

<400> 7783

gacgggggac acaaacacac ttcatccccc aaaacggaat tgcaaacccc ctccaatttg 60

aaaataccat tgacaacagc aaactttata aacccttggg tgtcaaaacc aaccggcctt 120

ggtgtgtcaa aggttaccgg gacaccttaa ggaacattgc cggatcaacc cacatgctgc 180

atcaactatt tgtacctata caaatattca tcatgctcaa tctccctact ccttgtttag 240

tactgcctcc gtcccataat atagtgcata tagatttttt tgagaagtta aacatcacia 300

actttggcca agtttgtggg ggaaaaatat ttacatctag aatatcaaac atgtatcatt 360

agatccatcg taagatgtag ttccatattt t 391

<210> 7784

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A2

<400> 7784

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gggcacaact aaggtggcta tcaagcgtgg caacccttg tctgagcagg gcatacatga 120
gttccagact gaaattgaaa tgctgtcaaa gtcgccac cgccatcttg tgtcgctgat 180
tggttactgc gaggacaaga atgagatgat cctgggtctat gaccacatgg cccatggaac 240
tctgcgtgag cacctataca agaccagaa tgcgccgctt agctggaggc agcgtttgga 300
gatctgcatt ggtgcagccc gtgggctgca ctacctcac accggtgcaa agcacaccat 360
tatccaccgt gatgtgaaga ccacagacat cctcctggat gagaaatggg tcgccaagg 420
t 421

<210> 7785

<211> 278

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A3

<400> 7785

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gtactaacgt ttcgtttggc tagtgcatac cgatgccgac gtatgtcgtg tacaagggta 120
aggttcccgg agtctacgat gactgggagg agtgtctgag acaggttcac cgattcagcg 180
gtaacagtta caaagggtag accactaggg ccgaggccga atctagatac acccgctatc 240
tagcgggaaa agggatggac ctttggggga aacgggtg 278

<210> 7786

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A4

<400> 7786

gggtcgacgg gccttctgc ggtgtcgtc ccataatctc atctcctgcc ctcagtatga 60
tatgagctcc gacgagggaa ggacatgtcg gtcgcctga gcgcccttta aatccgccgc 120

gtccctctct ttggctttaa tcaggggctg attccccga tgagtcattgt aggcaataat 180
tctgcagggc caaagcggcg gcaggcatcc acaccgcacc gcactacctg gccctaccct 240
acgtacatac tccagcacac cgacgtacta cgatgtaccc tacactacac agtacacaca 300
ccctaaagac ggagatcccc catgatcatc atcattagtg ctgccatgat cctctttaat 360
ctgccgtacg caccagatat aatactgtct cctcccagt cccagttcaa gcactcgttc 420
tgctg 425

<210> 7787
<211> 411
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-A5
<400> 7787

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aagatgaaaa aggaggaaga gaagaggatg gccacactga attcctgcaa ggatgaagac 120
agctcatgct catcggagtc cagcaacagt gagtgtgaag gggaagtcgt cggaatgagc 180
cgctgtgcca ccatttctgc gcctcgaaca ccacctgcaa gcacagtttt ccccatcata 240
gtgcctcaaa ttccagactc cgttgcactg gatgctcaga tcttttccgg gtctgcaaat 300
gcaatgcagt gcactgccac cagccttgcg gttgtcga aaaccagtgt gaacagaatc 360
aatgtctgca tgggcggcaa gtgcaagaag gcgggctcgc tcgctgtcct g 411

<210> 7788
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-A7
<400> 7788

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ggcgtcctcc aacgataacg acatcgagga gatcaacgtg gaggatgacc gtagtgtcgc 120
catcggggct gcctccgtgg gcgtagtcac caatgaggat gacagtatca tcgcggccga 180
tgctccggcg atagagaacg accagatcga cacgttcgtg cctgctccgg cagccaatgc 240

caacgaggat gccggtgccca ccttcctggc tgccccgggtg gccggtgatg atggcagtg 300
ctccttcggt gctgcgccgg cggccatgga ggacgaactt gtatccatct cgtccgctcc 360
gttggccgag gacattgatg gtatcatcat gggggctgct ccggtcgctg acgatgggta 420
tgttgc 426

<210> 7789
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A9

<400> 7789

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aagcggtcga ggaagcgcg atcaagctgc tggagctgcg gcaggtgaac aaggtgaagg 120
cgctcgctcg cgccttcgag accgtcatgg acgacaacca aagccccgcc accgccccga 180
agccgcggtt caacctccac gctgaacta cgagtacatt ccaccagcat gaagctcgat 240
cgcgctgcacc tcttccttta tcccggctac tctttaatca cccatcaacc caatttgctg 300
tcgtcgca cttatctata attacggtat cgcttatatt ttgcaaggag gaagatgatg 360
gaaggggttat catgatgtaa taataataat gatcatgg 398

<210> 7790
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-B1

<400> 7790

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tggaatacag tagatttaac accaatacaa ataaagaatg agttaattac agtaccttga 120
agtgggtgtt tgttttcttt cgctaacgga gctcacgaga ttttctgtta agttttgtgt 180
tggaattttt caagttttgg gtaaagattc gatggactat ggaataagga gtggcaagag 240
cctaagcttg gggattccca aggcacacca aggtaatat aaaggacaac caagagccta 300
agcttgggga tgccccggat ggcacccct ctttcgtctt cgttcacggt taactttact 360

tggagctaatt attttattca ccacatgata tgtgttttgc tttgaccttg ttttaattta 420
 attaacc 427

<210> 7791
 <211> 360
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-B11
 <400> 7791

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 aaaactgcaa agatttggtta aaaaggaaaa ggcctcctgt ttctcaaact gttcaactcg 120
 acaacttgaa aaacctaacc ctacatggtg tatctctaac agaatacccc ttcaaaaagg 180
 ttttaaaccg tttcccctta aatggggaaa accctctcaa aaggaagcca atatctttag 240
 atatgcaccc atggatactc tctgtacaga gaacgctgga aaattacgtc gcatccgang 300
 ccacaacaaa taagcttgcc agagatgcct tctgttcctg gcttcgcgct tacaccgccc 360

<210> 7792
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B3
 <400> 7792

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 agatcgtgca cctggcggcg gtgctaaacg gcgaccacca gctcaacagc ctgcaggaga 120
 ggatcaggga gaggatgaac gtgaggaag gcacctccta catgaggagc gccgtgcggc 180
 gcttcttcca tgccggcatg tcggccaaga ggatgggcct cgccgacgac gagcagatcg 240
 tcaagattac gcctccctt tacaccagca atgacctcct ccctgcaga ttaaagatga 300
 tagtccgtag agagcaacca tgcatacata cataggatga acattgatgt tggaattacc 360
 acaatttcta gtaccacaga tacaatac 388

<210> 7793

<211> 108
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B4
 <400> 7793

gggtcgacgg cacgggggca agggggcacc ccaaagcaca atagttgttt cttagccgtc 60
 tgcggtgccc cctccacgtt tactcctccg gtcattattgt cgtagtgc 108

<210> 7794
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B6
 <400> 7794

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 taaaccttct ttactgtctc ttgttgcttt acaccctccg gatactcaac acaaccgaga 120
 gggatgctgg cgttgttggc atttcgccac gtcagacgaa tgcacatacc tggaaattca 180
 gggttcatta acaagggcgt tactcagccc ggtatatgtt gtaaagtccg aataccttat 240
 ggagtgttcg gcgtcgcgag ttgggcctta tatgcatcag ctccgaatca tgtctttggt 300
 caatagttag gttttcccg ctcctgtgtt ttgctacctt acgttccgct ctatcggcta 360
 tgggtggcacc gggggaactg ctgcgattgt gccctggttc atctggatga gcacctc 417

<210> 7795
 <211> 324
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B7
 <400> 7795

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 ctttactgtc tcatggtgcc ttacaccctc cggatactca acacagccga gagggatgct 120
 ggcgttgttg gcatttcgcc acgtcagacg aatgcacata cctgtaaatt cagggttcatt 180
 taacaagggc gttactcagc ccggtatatg ttgtaaagtc cgaatacctt acggagtgtt 240

cggcgtcacg agtttggcct tatatgcac agctccgaat catgtcgttg gtcaatactt 300
 aggttttcac ggctctcgtg tctt 324

<210> 7796
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-C1
 <400> 7796

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 aggagtatga caacccaag gccagtgcg ccaagaaga acaaataggc gagggtgagg 120
 agaatggcga ggatgatgag gaagaacaag aggagcaaga gggaggagga ggtgacgacg 180
 atgatgatga cgacgacaac gacgatgaca atgaggacga cgacgatgat gacgatgatg 240
 tcgtctgctga agacgatgga gatggagtag aagaggagga tgatgacgat gaggaggang 300
 aggacgatga ggacttgctc cagccccga agaagaggaa gaagtgaagc ccttcgaagc 360
 ggctgcttta gttcacatgc gacgagatgt gcctgtcctt cactgtgttc tggaaacttt 420
 ccttagagtt aaaaatgccc ccacacga 448

<210> 7797
 <211> 310
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-C11
 <400> 7797

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 ttccaccatt ctggggattc caagatgaaa gtgaaccga cgactaccg ggagccaagg 120
 ttttacacca aggtgtttta ggaatgccac tcctatgacc aagatgggaa ttcctttgag 180
 ctttctctgg taacttcaa gtgcattgga gcttatgtga agagcaagaa gaaccagaat 240
 catgatgtt ggctatggga gaacgtcaag tgcacagaag acaaatgcct tcagagattc 300
 ctggacaatg 310

<210> 7798
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-032-Q1-E1-C6

 <400> 7798

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 gcagaagagg ctcgtcgtcc tcaccgcagg agctggcact ttaagctatg cttgccagga 120
 taaccgtgtt cttcaaatca gtgatggaac ggggggcaag aaaaagtgg ttataacttg 180
 aactggttgg gcagggtcaa gtttcttgag aaatatcgac acttctttgt atgatgtcca 240
 tgtggtatca cctcgcaact attttatgtt cactcctctg ttgccgagtg tgacatgtgg 300
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 tgcattcaga ttctgggaag cagagtgcta caagattgat ccaac 405

<210> 7799
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-032-Q1-E1-C7

 <400> 7799

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 ttttgctctg gatcggtaca caaattgctc aggttttctt aatttggtag gatttttgga 180
 gttacagaag tattcgagag ttacaaatta ctacagacta ttctgttttt gacatattct 240
 gttttctatg tgttgtttgc ttattttgat gaatccgtga gtagtatcgg agggatatgaa 300
 ccatagagaa gttggaatac agtagatatt acaccaatat agaaaataaa tgagttcaca 360
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 agttttgtgt tgtga 435

<210> 7800
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C9

<400> 7800

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cccaatttta tttttgttcc ttgctttttg ttctgtttta gtaataaata aatcatctag 180
cctctgggta gatgtgggtt tatgttttaa ttagtggttg tgccaagtaa gacctacagg 240
atcttcttgg atgataatta tttgatcttg ctgaaaaaga cagaaacttt ctgctcacgt 300
aaacaattgt taaaaatcac cagaaagcga taaaatactg attccaattg cagtagatca 360
ataatcaaat tatataggtc ttctattttt ggcagatttt tctgagttcc agaagtt 417

<210> 7801

<211> 409

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-D10

<400> 7801

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cgagagaagg tgctctacgc cgtcaagcgc tactggaccg ccgacagcga caagagctcc 120
caagagaaga aggcaacttc ttctgagggtg tgaaatataa tggtgagtga gatgagctga 180
gctgatgcac tgcaactcag gagatcagcg tgtgtttatt tcaacttctt gtgagtttct 240
ctcgagtgta gcagtgagat cagcacgtgt attccttttt gattacgtcg tgtaggatga 300
acacttcttt tccatttttt cgagatgaga tggtaggaaa tattcgacac aaagatctac 360
gtaccatttt ctgcnctca cagattcaag aatgttggtta tggcactcg 409

<210> 7802

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-D11

<400> 7802

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 ggaatgctgc catcagtcga tttagcatca tgaagtgtga tttttggagc tgctgctttt 180
 gccttccttg cagtagactc tgtcttcttt cgtgggtttg gtttctcatc aacggaggag 240
 tcatcgttac tggatagctc tggtgtagca tctaagtc gccgtgacat tgcttcctga 300
 agttacagaa gaagatcagt tgcattgct caggtacatg aatttcaatt gcatgtaaac 360
 ctaagcaatt cagaataaag cagtgcataa aataagatat gccattgca caatgctcct 420
 gattcacaca tacact 436

<210> 7803
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D12
 <400> 7803

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 tccattccat aatgtagtgt atatagattt ctacaatagt taaactttgc aaattttgac 120
 aatgcttcgt gataaaaata tttatattta aaataccaaa tgcataactc tggatacatc 180
 atgagttaac tattcatatt atatatgttt gacattgtac atatagatag tttgttcata 240
 aacttagtca aagtttggtta agcttaactt ttcaaaaaaa tccttttttg cggtaaatta 300
 tggaacggag ggagtgccta gaattgcaat ttgaagttac acataaggtg ttttccttgg 360
 agttcacgat tagaacgtaa aacagaatgt atcacctgt c 401

<210> 7804
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D2
 <400> 7804

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 catgcagctg gtgcacgatg gtgacttcat ggagctcatg ttccaagcaa ccctctcctt 120

gttggctcag gaggttcgcg atcgagcttg ggctgctgat acctcttctt cgccgcccac 180
caggaatagc atgagatgag cagccaatcc ctcatctcta gctttcatac caagattctg 240
tgcaccggtt cccctacggt tgaagatgga gagccattgg tagtagagag ggggaaggga 300
tgtagagacg gaagcagctt cacttgcccc gtctcccacc ccattgccga tgcagcggtc 360
gaaggagtgt cggacctcgc caacaagcct gtgacctgc atcagcgatg gcttgatgta 420
cgcactggaa acctccta 438

<210> 7805
<211> 447
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-D4
<400> 7805

gggtcgaggc gatggaccaa aaagtctaag gtaaactact cacacttcat cgaagaggct 60
atgatgatgt agaagccctc catgatgatg gccctcctcc ggcggagctt cggaacaggc 120
cctaagatgg gatctcgtgg atacagaaag ttgcggcggg ggaattacat ttttggctcc 180
gtatctgttc gtttgggggt acgtaggat atataaggagg aagaagtatg tcggtggagc 240
tctgaggggc ccacgaggca ggggggagcg cccccaccc tcgtgaccgc ctcttttgtt 300
ccttggcgta nggtccaagt ctctggatt acgttcgggt agaaaatcac gttcccgaag 360
gttttattcc gtttggactc cgtttgatat tctgtttctt cgaaacactg aaataggcan 420
aaaacagcaa ttctgggctg ggcctcc 447

<210> 7806
<211> 395
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-D9
<400> 7806

gatggaaaac atggtgtcca atgaggaatt caatgtggcc ttggatacat tgaaaacatc 60
aatgacaacc acggtagaaa gcatgtttta taaattctta gaaggactta aactacctac 120
ctcgtcgttg aaagtgggtg atcccactaa caaggtgaca gatgctaact ctgacaaggg 180

ggaagctaag agtgagaagg gtccttctac tagtggtaga atggcaccga catctttgcc 240
catgtagaac ctccaactta tggaggaccg attccctcta ctcatTTaaa tcatgccggg 300
cctcctaaga ttgtgaaaaa tgaggatttt gattcttggg tgtatcgctt caagcgcat 360
ttaaatacatg tgaataactaa tctttggaga atcat 395

<210> 7807
<211> 449
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-E1
<400> 7807

cggtcgacgg gaggcgggtcg cggtacacat agcgcgacga cgacgacgat gatgagagga 60
agccgcggta caagaagcac gacgacgacg atgatgacca cgagaggagg ccgcgggtaca 120
agaaacgtga cgacgacgac gatgatgacg atgacagaaa gccacgttac aagaagcgct 180
acgacgacga cgacgatgat gataggaagc cacgttaca gaagcacgat gatgatgatg 240
acgacgacga tgataggaag cagcgtcgcg ggaacaaccg ccgccgccac gatgacgatg 300
actgattatg acatgagttt aagctgacgc taataagcat agttgcggcg gctttgcac 360
gatgaattac gacatttcac tttttttcca agcatttttc atttcgctgt tcaactggcca 420
catgcttcca atcgtatgct cgagcttct 449

<210> 7808
<211> 312
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-E12
<400> 7808

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agacaggccg catcgtgaat atcaccggcc atcgcacaa tgccgatcat ctacagggt 120
cctcactgca gatgtcctac catcagccca gctacacaca tgtgcatcac gtcaaccatt 180
cgctagctgg cttactctac agtatgcaat catgcatgtt ccgtcgatgt acttcatcaa 240
ccttaattgt caatgggaca ctactttat actgctcaag tcacgtagca gtagtgtgcg 300

atactcacao ca

312

<210> 7809
<211> 453
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-E2

<400> 7809

gggtcgacgg gagggctcaa gatctgtgtt cggagagggg aattcttgag gtcggaatcg 60
gaacaagcgg gcgcgctcgg gatcgggggtt accatacaat ttttcccagg aaccttttagt 120
gaatgtgcta atggagtcaa aggggtggcaa aaagtctagc agtagtagtt ccctgatgta 180
cgaagctccc ctcggttaca gcattgaaga cgttcgacct gctggaggcg ccaagaagtt 240
ctctgctgca tactcgaact gcgcgaagaa gccatcctga tatcgttttt ggcatcccct 300
tcccgtagtt taggattttt atgcaatttt attctgactc ttttctcnca ccaatctctc 360
tggtttgctg cttcacgata atcgaccagt tctctagtct ttctcnctct gttectctct 420
gctctgcttt ctgactcaaa actgcaacaa tgg 453

<210> 7810
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E3

<400> 7810

gggtcgagcg ggatattaca gtagaaacaa cgcaaaaaca aaatatgaat tggtttgcaa 60
cagttcttag agtagtgatt tgctttatta tactaacgga tcttaccgag ttctctgttg 120
aagttttgtg tggatgaagt gttcgatgat cgagaaggtc tcgatgtgag aagaaggaag 180
agaggcaaga gctcaagctt gggatgcccg aggcacccca agtaaatatt caaggatact 240
caagcgtcta agcttgggga tgccccggaa ggcatcccct ctttcttcaa caagtatcag 300
tatgtttttg gatttgtttc gttcatgcga tatgtgcaat cttggagcgt attttgcggt 360
tagttttcat ttttatttta tgcacatga cggtatgata tagtccttgg ttgtttatag 420

aatgctcatt gcacttcact tataatcttt

449

<210> 7811
<211> 440
<212> DNA
<213> Triticum aestivum -

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-E4

<400> 7811

tatgtcgtgt acaagggttaa ggttcccga gtctacgatg actgggagga gtgtcggaga 60
caggttcacc gattcagcgg taacagttac aaagggtaca cactanggc cgaggccgaa 120
tctagatacg cccgctatct agcgggagag gggagggagc attggaggaa ccggatgaag 180
acgagtttca tcgtgatgat gtcacgtgtg atgacccag ctctcttcta tgtgatggtg 240
gttttagatga tcgatatcga cttgtaatgt gaagacaaac tcgctactcg cggctctcgag 300
acttgaata taatgttcta tctctgttcg gtcttttcaa ttcggagact aatatgatga 360
attgtattcg gagactaata tgatgaattg tattcaaaga ctaatcttct attgtattcg 420
atgaatctgt tgttgatgtg 440

<210> 7812
<211> 464
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-E6

<400> 7812

cccggtcga cggggaagaa tgacgaagac acagaagaag aagaaaaaga agaagaagaa 60
gaagaagaag aacaagaaga acaagaagaa caagaagagg aggaggaaga agtagacgaa 120
gaagaagagg aagaagaaga agacgacgaa gaagaggaag acgaagaaga agacgaggaa 180
gaagaagatg aagaagacga agacgaagaa gacgaagaag aagaagaata agaagaagaa 240
gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 300
gaagaagaag aagaagaaga agaagaggcg attgaaaagc aaacggaaga aatacagaca 360
gatgagcaga aacatgatga cagtagggct gatttcacca cagagacaat attggagccc 420

cagagcaacg anattgacac aacaaatagg aaagacaacg ctga

464

<210> 7813

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F11

<400> 7813

gaacgtgatc accatcttcg aggaggaagg cgggcgccg gacgccatca tgatcctgac 60

ggtgaagcgc gacaacatct gcagcttcat ctcgagacc aaccccgggc acttgcggtc 120

gtgggagacc aaggacagcc agctgacgat ggtggcgac gacctgaagc cgcgggcggt 180

gctgacgtgc ccggagaaga agttgatcca gcaggtggtg ttcgccagct acgggaaccc 240

gctggggatc tgcggcaact acacggtggg caaatgccac acgccaagg ccaaggagat 300

tgtggagaag gcgtgcgtgg ggaagaggag ctgcgtgctg gccgtgtcgc acgaggtgta 360

cggcggggac ctcaactgcc cgggcac 387

<210> 7814

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F12

<400> 7814

gcgcaaagag agacgcttga ttttgaaca acagctagct tcttctcaag ttcctaggga 60

ggagcagata aaattgataa aggagttgca gaggaaggag actgaatata tgagacttaa 120

aaggcataga atttgtgtgg atgactttga gctgctcacc atcattggaa gaggtgctta 180

tggggagggt caactatgcc gggataaatc ctctggtaat atttatgcaa tgaaaaaac 240

taaagaagtc tgaaatggtt gtcaagggtc aagtggagca tgtagatct gaaagaaact 300

tgctggctga agttggtagt cactgcattg tgaagctata ctattcttcc caagatgctg 360

agtatctcta tcttatcatg gag 383

<210> 7815

<211> 395

<212> DNA

<213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-F2
 <400> 7815
 cgtaatactt acgtggacga gcacctgatg tgcgacatcg agggccacca cctcgccctcc 60
 gccgccatcc tcggccacga cggcaccgtc tgggccaga gcgccgattt cccgtcgctc 120
 aagccggcgg agatggccaa catcatgaag gacttctacg agccggggac cctcgccccg 180
 accgggctgc tactcgaga cgccaagtac atgggtcatcc aaggtgaacc tggcaccgtc 240
 atccgcggca agaaaggccc gggaggcatc accctgaaga agaccgggca ggctccggtg 300
 gtggcatct acgacgaccc catgacctcg gggcaatgca acctggctgt ggagacgccg 360
 ggcgactacc tggtagagca gggcatgtcg acgac 395

<210> 7816
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-F6
 <400> 7816
 attcccgggc cgacgggtca ctcaatctct ctctctctct ctctctctct ctctcttttt 60
 tgagggactc attccttctt cttaattctg ctagtcagtg gcagaaaact ctttgtggaa 120
 gggaaatccc atgcggctgt agccaaatag cgctattaat tttccttgaa ccagataagt 180
 gtggcgtgct ctcaattggt gtaggagatg ggatcatagc gacttgtatt tgtaatttgt 240
 tttatttttg aaggtagcta caagtaaatt gaaatcttgt tcatttcttg ggtgtgacaa 300
 gtgctcagtt gacttagatt tgggtaagtc taagtcgggt gatatcagca tgtttctacg 360
 ttatttttct atttttatgt tttctacat ttttttaagt gcagggtgaaa aaattaagaa 420
 tttaaatatg ttttcgcctt ggaaaaat 447

<210> 7817
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-G10

<400> 7817

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aggttgctta tgtcatgtgt gtcatgggtg aaccagtttg attatgtcgt gtttggttagg 120
gttgaacaag tttgtttatc tcatcaagta cattgttttc ttatctcatt atataagttt 180
gctagcttcg tattttgttt atccatcatt tcaaattcaa gtagcttgcg agtggaactt 240
tgtggctgct gttcagtact agttatcaag caactattca cacaagggtc ttccatgtgt 300
agtttggtt cagcattgta tggaaaacat aacgttgaaa acaatcagta caatttgagc 360
tgcttagcag cgcttcanaa gttgaagtaa tttnttttag tacttcatgt actg 414

<210> 7818

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G11

<400> 7818

gtattatcat ggttgagttt tgttacgttg atgcagggtg cttagggtcat gtgtgtcatg 60
gttgaaccac tttgattacg tcgtgtttgt taagggtgaa caagtttgtg ttatcgcagtg 120
aggtacattg ttgtctgac tcattataca agtttgctag cttcgtagtt tgttttagcca 180
tcatttcaga ttcaggttcc ttgcgagtgg aactttgtgg ctgctgttca gtactagtta 240
tcaatgcgac tagtcagaca gaggtcttcc atgtgtagtt tgggctcagc attgtatgga 300
agacatagcg ttggaaacag tcagtagag 329

<210> 7819

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G12

<400> 7819

gtcctactaa caaggcaaga gatacctcga ttgccttcgg aggcacgctc acggtgtcat 60
gtggccattg ccaccctgat attgtcaagg ccgtgcagga ccagaccaag ttgcttcagc 120
acaccaccac catatacctg catcatgcca tcgtcgagtt tgccgaggcg cttgcctcca 180

agatgccagg caatctcaag gttgtgtact tegtcaattc tgggaccgaa gcgaatgaac 240
tagcaatgtt gatggctcgg ctgtacagcg ggaatctcgg tatgattgca ttgagaaatg 300
gataccacgg tgggagtgtt ggaacaatag gtctcacggg tttgcagacg tggaagtacc 360
cgattcct 368

<210> 7820
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G4

<400> 7820

tggttttagct tacatcggat atgtaaatcg agcagtaaaa tattagacac agttgaaactt 60
agactacctc catactccta tgattctgag gctgtttgga tacgaattcc acggtcagca 120
aaaatagctg tggaggaaag gaaactagag tttcgtggtg gttcacatgc tgcttcacac 180
gcactcttga atatattgcc tctgcatatg atgtgtagtg cttctgacct gggaaactgag 240
tgcgtaaatc ctcataaagc ccgtggtatg cctgaaagaa ttcttttata cgataaacac 300
ccagggtgga tcggcctggc aacgcaggtt aaaaaacttt ttgggggaact tctgcttgct 360
gcttttagagc ttgtttcgac atgcagttgc cctagtgtct ctggctgtcc gaattgtatc 420
caatcattga catg 434

<210> 7821
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G5

<400> 7821

gcgggtcgat gggagtccca aagtgggtata gatctatgaa ggataaaca agaaaaaat 60
tccatgaaga tcattggaca aaataaactt tattcttagt aatagttttg agatatgatg 120
atgtgatatg tgagttatgt tgatgagtaa ttgtgctcta gtaagaatat tgggtgtaag 180
gtttgtgatt ccctatgcat gcacgaaagt caatagtcac gcagtgaata ttatgtccta 240
cttgtgggtgc attatttggg gttaattatg cttaatgctt gcttatgaga ttattcgttt 300

cttgggttggt cttttcccaa acttttgcta accttcattt tgcactaagt atgacctcta 360
 cttgtgcttc caaaatcctt taaaccagtt ttgccacatg agttcactat atctacctat 420
 atg 423

<210> 7822
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-G6
 <400> 7822

gacgggggag ccaatgaggg ccactctcga cacgctgccc ccacacacac acaccacccc 60
 ccggggccgcg atcgtcttcc tcgattcaac gagagttgga agcgggatag ttcttggggc 120
 accggaagcg tcgcacgcat ggcagatgag gaggtatctg acccaaaggc actcctagag 180
 gatcgtacga aggctaagtg tgtctaccac tggatgaat atcagaaatg cgttaagaga 240
 attgaaggtg atgagaccgg gcagaagcac tgtactggcc agtacttcga ttactggaaa 300
 tgcacgcaca agcatgttgc tgagaagctc tttgatagct taaaatgaca aggaaattgt 360
 tctctctagc tacttttcac tcaacagtgg taataaatag tatcacttgc acgccttatt 420
 ga 422

<210> 7823
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-H10
 <400> 7823

tggatcagta atactgacac acacagtact caaaggattt ataacaaagt gcaatcacac 60
 acttattaca tcgaatgtct caaaagagaa cttattacaa aaatatggct taaggccaac 120
 taaataagat aactgcggaa gcatcgaaga taaatgagtc catcaactcc aatggcatag 180
 ctgagtgcac gacaacgacc tagcgacact tactcttcgt ctgaaaagtc tgcaacataa 240
 tacgttgcag cccgaaacgg gtcagcacat ggaatatgct ggcaagataa cactgtagag 300
 caatgaacaa tgaacaacta taactatatg catatatggc tgggtggaggc tctatgggta 360

tttatgcaga aagctaattt ttccctataa ca

392

<210> 7824

<211> 341

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-H11

<400> 7824

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tgcattcgcc gtgtcagcgg ccaggcgacg cggaggggat gaagggcaga gagagaacat 120

gtttctgtct angtcacact gcttacttan gggaagtga gggcccgaca gaaggcatgc 180

aaatattgaa gagggccgag actaatttgt taactgtgat tttaaggttt atcgtctgtt 240

tattttctaca attttatttc aactttctat acatgcatac atgcaaaaata cgcaagtga 300

catgtgtgca attttccccg cgccgatgaa aacattttta g 341

<210> 7825

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-H2

<400> 7825

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aaatgatgaa cgccgagaaa gtctcaaggg ccatattggt.tgtgcaacag aacctcacc 120

catttgcaaa atcttttctt caagaactgg agccaaagat ccacttggag gttttccagg 180

atgccgaaat gcttataaat atcaaggaac atgttctcgt tccggagcat caagtgttg 240

ctaacgagga aaagaagacg ttattggcgc ggtacgcttt aaaggaaact cagctaccaa 300

gaatacaaat tacggatccc attgagaggt actacngcct caaacgaggg caagtggatga 360

agatcatcan ngccagcgag acagccggca gatacgtcac atatcgctaa gttgtatgac 420

agtagac 427

<210> 7826
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-032-Q1-E1-H6

 <400> 7826

cgggccgacg gggattatca atttaaaacc tgtgtctttt tctttttttt cctagtttgt 60
 attctgtttc tttttcattt tctcgttttc ccttttttat tttccaaaaa tgcttattct 120
 tttaaaattg gttcaaaatt ttaaaacacg tttgtttttt caaaatatgt tcaaggaatt 180
 aaaaatattt ctatttttaat aagttgtaga actagtgaat atgtttgtat cttaaaaatt 240
 gctcacattg aaaaaagacg aacattttta aaaagagcga acaaaattta gatcatggtt 300
 ttttttgaat gtagaaaaga ttagaaaacg ggaacatttt ctaaaattct gaacaaattt 360
 tgaaagcatg agcattattt gaaactcctt gaatttttta acattgaact tttctgaaag 420
 ccatgagcgc ttggctggcc gaacgggtgc ctg 453

<210> 7827
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-032-Q1-E1-H8

 <400> 7827

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 aaccagagga gccggaggca accgcaaagg ccttttttga ggtcatggcc tcgtcgaaga 120
 aacctcttta tgcgggtgag aaaatatctc agctggatgc catctcgcaa ctgattgcag 180
 tcaaggetga gtacggctgt agccagaaat gcttcgaagc attcctggga gtatgggcta 240
 acagcctccc tgagggtcat gaactgccga aaagcatgta cgatacaaag aacatcatga 300
 aggcactctc tatggattat gacaaaatag atgtttgccc gaagaattgc cttttgttta 360
 ggcacgagta tgcggatgac atgtactgt 389

<210> 7828
 <211> 57
 <212> DNA
 <213> Triticum aestivum

LIB104-032-Q1-E1-H9

<223> Clone ID: LIB104-032-Q1-E1-H9

<400> 7828

gtcgtattac gagcaagatc gtcggcttcc tgactatacg cttcgtcggc acgtccg 57

<210> 7829

<211> 168

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A1

<400> 7829

cggggagcga cagcgttttt atgtgcattt gtatgcacga cttgttgagc acgacatggg 60

catgaatgca tgttcgggtga tttgcttcgt cgatgttcat accgacttct acatcatgag 120

atctgtacag ttcatgtaat catgtgcacc tttctgtgag aactctgg 168

<210> 7830

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A10

<400> 7830

attcgccggg cgacgggggg caagaagagc agcacatgat agcttttccc cacggatcct 60

tctcgtcttc cactgatc aagtcgtctc gcctctctcc gtcagcccaa acatggacgc 120

aagcacgcgc ccgagtggaa gccaccaatt gcctgctgca gaacaagaag ctgagcagct 180

tgtaaatgct gctagggctg ctaaaacggc gaggcttacg caagccacat aagaggctga 240

gagagaaata gctgagtacc gtgcacaaat ggaggctgat ttccagagga agtcaccga 300

gaccagcggg gactctggcg caaacgtcaa acgccttgag caagagacaa acgtaaagat 360

tgagcagctc aagcagcagg cagcaaacat ctctccagag gtgattcaga tgcttctgag 420

gcacgtcacc actgtg 436

<210> 7831

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A11

<400> 7831

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tacacgaaat cgacgcgcca ggccgcaaaa aagaccaaca aggccaccgc caatgtcggc 120
atggctggct acgcatgacg agggagaagg actctggttt gatggaactt gcttgagtgc 180
tggatttaga tagatattct ggagcagaac gtagtagttt ctggaaaatg tagcgtgtgg 240
tatggctctc tatgatcaga tcagatgtgt ttgttcaggc ctagttctcg tcttgccctga 300
tctacagaat atttgatgtc caagacagcg gcattgtgat actcctagat ccaagttgtg 360
agagtgcgca tgatcatatg agaggggtga accggatggt cactgccaa cgggctaaga 420
atTTTT 426

<210> 7832

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A12

<400> 7832

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tatccggata cccgagtaat tcatactatt cctttgttgc acagctttcc cttatgtcga 120
atatgtttat gtagccaccc aaagaccgac tcgatgcgtc gtcgagcggg tccactggact 180
cgtcggatgt gaattcgctt ccgacggctt cctccccccg ccctacggac gacactgaag 240
tgttgtccca ataggttcca atccaggagg aggtggctct ggaggcgccg caaggtgacc 300
tcccggaccc caggagtga ggggacagaa cccccaggg ctccaagtcc ggccttaggc 360
cggacaccgc tccggaacct tcaaagggtc cagagtccgg cgggcgacct ccttccaaga 420
ggatcaagcc caccgtgccg ggga 444

<210> 7833

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A2

<400> 7833

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actctcctag taggaatatg tatgtgaatc accacagaac accccctaca gcacaaacta 120
ttttacataa ttacatttca cttttcacct tgcacgattt cctctgtgat ttccccata 180
tatgacttgt ctgttttgtg aggtatggta gtgctcacat aattttcttg tattggacga 240
tgatgctata ggtgtcgagc tttgcatat atgatgatca actgcatgca tagaaagata 300
tagcagttga tttgcttcat agtatgttat tgctaggctg ctagttttgt gtcactcagt 360
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<210> 7834

<211> 363

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A3

<400> 7834

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cggcgttggt ctcgatgtg tacagaataa ttctctgcta tcaggtggta ataacgcacc 120
ggaacggacg ctgttcttga tgcgcggaat ggcaaggcaa agcattcttt caccgagcaa 180
tggtgattga cgacttgatt acagacaaga tagatttggc acattcttac ctgtaaagat 240
aatttgccaa ataaagccgt ttataagctt tgccactttg ataattctct gtactgacac 300
aatttgaaag aattcctttg acaaaaaaaaa aaaagacaaa aaaaaaaaaa aagcggccgc 360
tct 363

<210> 7835

<211> 352

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A5

<400> 7835

cgatcccaag gcatttggtta aactaaaaat cattggagat tgcaccgtgt aatacaaagg 60
gtttgtgact tcggccaagc caagtgtatc atgtacatac cacggatttc ccgaacatca 120

[illegible]

<400>	7838
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<210>	7839
<211>	440
<212>	DNA
<213>	Triticum aestivum

<400> 7839

<210>	7840
<211>	414
<212>	DNA
<213>	Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B2

<400> 7840

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agggccacaa ggacgacgac ccaccacaac accatcatcg catcccatta gcatcgccag 120
tttccttgga gagaagtagc cagaaacagc agcgccatgg ccggcatcat gcacaagatc 180
gaggagaagc tccacatggg cggcggcagc gacgagcaca agaaggacga ggagcacaag 240
aagaaggacg gggagcacaa gaaggacggc gagcacaaga aggacgggga gcacaaggag 300
ggcatgatgg agaagatcaa ggacaagatc agcggcgacg gccacggcga cggcaagaag 360
gacggcgagc acaacgagaa gaacgacaag aagaagaaga atgacaagaa gcac 414

<210> 7841

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B3

<400> 7841

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aagccccgta ggagacagag aaagggcatt ttcgtaccg atgctcatct tttggctgtg 120
attatgaaac catcattcgg aacaaatctt cagttgtgga ttaaatacgtt ctgtagtgat 180
ctttcgggct gtttattttt tcttttcctc tttgaatgtg ctgtagtggc cttattacat 240
catcgtatctt gtcttcgaga acaaaaaaaaa aaacaataaa aaaagaaatt actgcagcac 300
aaaaagatac aaaggtgaaa taagacgata aatgaaaaaa cataaaaagc t 351

<210> 7842

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B6

<400> 7842

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tgaacacggt ttttgggtta tgtttgacgt aagtatgagt ttaggatcac ttcttgatca 120

ttgctagctt cagcactgta gcgacccgac ccgaatggat cgaatatcta tgcttaagtg 180
 tcatccctgg atcggatgac tgacacatac agtactcgag gatttataac agaggtaaata 240
 cacatgtata aagtaacgta aatattatta cctcgaatac aaatagcgga agtaacaagg 300
 ttgtggattc ccatcaacac caacgacaaa gttgagtgtg gaaaccgtaa ccctaacgta 360
 tcacttactc gtcgtaagat atcttgcaac atgagacggt gcaaccatgt aggtcagtag 420
 attcaatgta ctggcaaatt cacaccatag 450

<210> 7843
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B7

<400> 7843

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 ggagggcatg gcacggtcta caaaggatc atgtcagacc tgcattgctg ggcatcaag 180
 aagtccaagg tcgcgatcca gagggagatc gacgagttca taaatgaggt agccatcctc 240
 tcgcgatca accatcgaac cgtggtgaag ctctttgggt gttgccttga gacggaggtg 300
 ccgttgctgg tgtacgagtt catctccaat gggactcttt accatcatct tcatgtccaa 360
 gaacccgcgc catccctagc atgggaaaat cgggtaagga tcgcaaccga aactgc 416

<210> 7844
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B9

<400> 7844

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 ccaagctcaa gtccgtctcc atctccaagc ccaagtccaa gatcgggtcc gccaccagct 180
 ccgccccggg ctccggctcc aactcgtgat aggtgatag gttttcatat ttgatagctc 240

tttatatgtg gttgaggaga gactgcatat tatgtttgat tgcaagcttc gagtcaactca 300
 ttatgatagc tctttagtta tatgatcttc ttggtattgt ccaactgtaat gtatggcgcg 360
 taacatattt gacctgctat agcttaattt tcatgccttg cc 402

<210> 7845
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C1
 <400> 7845

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 ctgtgcaatc atcagaccag ctggacgagg cttgtcctgt tttgactagg atagttgaca 120
 atggaagaaa ttgatattgt gttgagctat tagtaggaat gcaatagctg aattacagcc 180
 ctcttgattt ttttcgatat tggttcgatg ctaaaaatag tacacaacct aacagaaaga 240
 gaagaattgc cctctgtaat tcagcatttg ctgctctgtt ttcattgttg cctctgcac 300
 ttgcttattg ctgtgcaacc gtcatactag ctgaccagg tttgtcttgt tttgactaga 360
 ataattcaca atggaagaaa ttgatattgat gttcctccga ttattagagt gtaacggctg 420
 aa 422

<210> 7846
 <211> 428
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C10
 <400> 7846

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 cagcaacagt gagtgtgaag gggaagtcgt cagaatgagc cgctgtgcca ccatttctgt 180
 gcctcgaaca ccatctgcaa gcacagtttt ccccatcata gtgccacaaa tctcagactc 240
 cgttgcaactg gatgctcaga tcatttctgg gtctgcaaat gcaatgcagc gcactaccac 300
 cagcattgcg gttgtcgaaa aaccagtgtt gaacagaatc gaggtctgca tgggtggcaa 360

atgcaagaag gcgggctcgc tcgccgtcct gcaggagttt gagacggtgg ttggcacggg 420
cggcttgg 428

<210> 7847
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C11

<400> 7847

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agctcacgcg ggcgcgcac cgggcgcac agaccgtgca gcagctcata ggagagccgc 120
tgagggagga tgggccagtg cttggcgatc actttgatcc gcttcctcct ggtgcattcg 180
gagcgcctat gcctgttggt ccagagcagc ggaagcagcc ttatcgatca catgagacca 240
gtgtattttc tgcacacgat cccaagccca tgaaggcatc agcattcttg ccaagcatag 300
acccttctgt ttcaagtaca gttaccggga agaggaagta catgtctgga aattcttctc 360
atcttccttc acgggcagta catgagtacc agtttcttcc agaacacact agcgatatat 420
atgagagaac 430

<210> 7848
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C2

<400> 7848

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tcctcacgat tcatgactct cctgagtcct ctgcaccca gcgtctaact gtaggtagac 120
gtcacacaca tatgtgctat tcacacccta ccctcagaac ttctaaaaaa taaaagacgc 180
cgcacacctt ttattttaac tcacacgtca cacatttata ctagtactgt tgtggcgaac 240
attctttggg cgtagtatat tgtactctca cggagagaag cagtgcacgc acacactagt 300
tctctcacag ccactcgcga gtacacgtag gagcacattt tttgaagcta ggagcgcatt 360
tgtttcaaaa gaggcacccc aattgacatt ttgactagtc tagttttcaa cttgatagag 420

ggtcgaggac cgcacatg

438

<210> 7849
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C3

<400> 7849

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aggaggaggac ttatgtcacc acaaacagaa actaaagcag gtgttgatt taaagctggt 120
gttaaagatt ataaattgac ttactacacc ccagagtatg aaactaagga tactgatatc 180
ttggcagcat tccgagtaag tcctcagcct ggggttccgc ccgaagaagc aggggctgca 240
gtagctgccg aatcttctac tggtagatgg acaactgttt ggactgatgg acttaccagt 300
cttgatcggt acaaggagc atgctatcac atcgagcctg ttgctgggga agacagccaa 360
tggatctgtt atgtagctta tccattagac ctatttgaag aggggtccgt tactaacatg 420
ttt 423

<210> 7850
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C4

<400> 7850

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ctgctggagc ttttctccct ccgtgcaccc aagaagcctt tgtgcaaat ttgaaccaga 120
cattgctttt gtagaattgt tgttgcttag tattacgatt ctagcagtag cgctcgcttt 180
atatatcccc tactttotaca tgtactcaat tgtacatagc tcgcccccat ttgtactcgt 240
acgatcttaa agaattatcg tcagagctaa ttgggtgatca tcgtgtacat gctgtttgat 300
gcttaaaa 308

<210> 7851
<211> 436

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C8
 <400> 7851

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 accatgatta acattcttca aataccaaat taacattttt tggatacatg gtcaacattt 120
 tttctataca gattttacat tttttaaatg gttgattaca tttagaaata caagttaaac 180
 attttttaac acatgggtcaa cattttttgc atacgcattt aacattttta actgcttgat 240
 taacatattt catatattta tttattttca aatgcttgga ttaacatgtt ttaaatacat 300
 gatcaacttt tttcatacac attgtatatt tttgtacaca ttttctctat acacataata 360
 tttgtcaaat gattgattaa cattttttgg aaatgttttg atgtagatta tttttgtaat 420
 atgtttatta atagta 436

<210> 7852
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C9
 <400> 7852

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 atattttcag attacaaaaa cctatatcta ccatccatat tgcacttgta tcaccatctc 180
 ttggccgaac tagtgaacct atacaattta ccattgtatt ggggtgtgtg gggacacaag 240
 agactctttg ctatttggtt gcagggttgt ttgagagaga ccatcttcat cctacgcctc 300
 ccacagattg ataaccttag gacatccact tgagggaaat ttgctaccgt cctacaaacc 360
 tctgcacttg gaggcccaac aacgtctaca agaagaacgt tgcgtagtag acatcacctt 420
 ggtgtttggg 430

<210> 7853
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D1

<400> 7853

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attatgagag aggaactaca tctccgcctc tttatgtttc caacacgata aaattgaaag 120
aaactattta tactatgcat tggcctttac tttgtgagca tgaattgttc tttcatgaca 180
tgccgatgca taggaagaga gttagacttc gttattgctt gatttatgtt actttgtgct 240
cactactaaa ttacaaatca ttgtttatta aaattggctt tgatatacct tgggatccag 300
gtggatccat tacttgagca ctatatgcct agcttaatgg ctttaaagaa agcgctgcc 360
gggagacaac ccgaagtttt agagagtctt tatttctatt gattgtcttt atatagtct 419

<210> 7854

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D10

<400> 7854

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ggacggcgac gggaagaagg acggcgacaa gaaggaggag ggcgacggca agaaggacga 120
ccagaagaag ccgcccgcg tggccccgct gccgtaccg caccacatgc cgctgccgca 180
ccacatgccg ccgcccata tgttcaacgc cgactacatg atgaaccagt accggccggc 240
gccgccggcc taccgcgcgc cgtacgtgcc gccgcagcac tactacgtgc ggaacatgag 300
catggaggag aacccaaact cgtgcgtcat ctgctaagtc aaagtctatc cctcgatgc 360
tcgcgtacgt ccgctggggc gaccatgcat gcacccgtgt atagtagtat tttctcgatc 420
gtttttacg 429

<210> 7855

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D12

<400> 7855

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tttgccttaa actactggtt gcagatacag gagaagtga agtttggtgg ttttcttgag 180
atcattccct tggcacttgc tcttggtttc tggctgctgt tccatggttt ctttggctgg 240
atctccatat cccaaaactg actctggact tgatgagtat gaagccggct atgagttctt 300
cgaattagtt tgatttatgc tttcttcaaa gttgatgtcc atgtgcggac aagatcaaca 360
tttatgcttc catgtcttag tttttaaaaa aagctgtgcc ccgtgggcaa gagca 415

<210> 7856
<211> 385
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-D3
<400> 7856

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acttcttttt atgctaattg gtttttgctg gtttgctgca tgcacttctt tttctgctac 120
tgtctttttt gctggttcca acaacctttt cgccggcgga gctgcaaccg gtgtgttgca 180
aagctggaac cagcgtccac cgatgctgga accatgcata tttttgcgac aagcatatcc 240
atgttttggt ggaaaccatc tcatttttgc tggaagtacg cgatctatct ttttgctgga 300
accatatcat ttttttgctg gatccttgat ttttgctgga acgtctttgt tttcgtaca 360
aatggcatcg aaaattgaca ccatg 385

<210> 7857
<211> 452
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-033-Q1-E1-D7
<400> 7857

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attttatctc tggcttcttt cttatattaa aattatgact agggataacc tgetgaagag 120

aaatttgaac aagtccattg atttgttttt cttttctgaa cctgagagtg tacagcacct 180
 gttgtgtgac tgtttggtag ctagacttgt atggaagcaa atcagttgct tattctctat 240
 gcaaattgga gtttcagtag agtcagttac ttccctttgg gttgctggta aaataacttga 300
 cgctctgaat actgctgtag ctgctgtgct ccgggctttg tggaaacaca ggaatgccat 360
 gatctttaat tgagttgttt ggttttcctt gaccaagatc tggtcgctga ccttacgaat 420
 gctcaggaga tggcgatcgc tcttcanaca tc 452

<210> 7858
 <211> 91
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D8

<400> 7858

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 ataaatttgt atcacgtcca ctcatattgt t 91

<210> 7859
 <211> 381
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D9

<400> 7859

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 ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacggggccg cccaaaagggt tcaaacctaa 120
 cttacccttg aatgcaactt caaaccctt caaaagtgcc accaaatttc aattcacggg 180
 ccttcgttta aaaacttctt aacgggaaaa accctggctt aaccaatta aacccccttg 240
 cagaaaatcc ccctttccca acctggctta aaacaaaaaa ggccccacc attccccctt 300
 ccaaaaattt gccacccta aagggc aaat ggaaccccc cttaccggc ccattaacct 360
 cggcggtttt ggtggttacc c 381

<210> 7860
 <211> 394
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-033-Q1-E1-E1

<400> 7860

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atgcattgcc ctttctcacc tcgagagttg gttcaaactt cgccgggtgca tccaaacccc 180
gtgatatgat atgctcacac ataagcctta ttatatcttc ctcaaaacag ctaccatacc 240
tacctatcat ggcatttcca tagccattcc gagatatatt gccatgcaac ttccatcatc 300
atcatataca tgactcgagc attcattatc atattgcttt gcatgatcgt aagatagcta 360
gcacgatact ttcatggctt gtccgttttt tgat 394

<210> 7861

<211> 432

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-033-Q1-E1-E10

<400> 7861

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tccaagttgg agacgctgga aaacgatgat gatccggacg gtgccgaact gagctccatc 120
aatcctcacc cggagagcgg cgaggaggcg gggccaggcg acgtggcgaa agacctgagc 180
aagatcaaga ggcagaacat gatcaccac atcctgctcg gcacggtgat ggtgatgatc 240
gccgcgtggc agttcaacga ggtgtcgttc ctccctcgcg tgcagaagaa gctgaccaac 300
cctttcaagt ccgtcgggga catgggtcaag agtaccctca agatagggaa gaagccggtg 360
gtcgaggcga tcgaggcgtc gcctctgccc cctgtcggcg tcccgacgt tggtcgggct 420
gatctgccga tg 432

<210> 7862

<211> 433

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-033-Q1-E1-E11

<400> 7862

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cgggagcagag tacaggtcga tctgggtgta cgtgggtggg ccggtggccg gagccgtggc 180
cggggcggtgg gcgtaacaac tcatccgctt caccaacaag cccctgcgcg agatcaccaa 240
gagcacctcc ttcctcagga gcatgagcag gatgaactcc gtctccgtct gattccttat 300
cactagcaac gttgtattac tactacaagg ctatgtaatt gtcgtcatcg tggccatata 360
tccatggcgt atcgagtggg ctacactcta ctctctagt ggtcttggcc taactgaacc 420
tgccagagta tgt 433

<210> 7863

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-E12

<400> 7863

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ctcccatgcc gacacgtctt ccacgcagac tgcttgagg aaagtactcc gaagagtga 120
gcccataaac caccttgccc gctttgcacg cgagctccc atagtgaagg atgtgtatca 180
ttctcggagc ctcttcacgc cgccctcaga tccgctcgca ggaatcatgg cattcgcttt 240
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ctgaagagaa atcagtctgc gctcgcgcca gcgcgcagcg gctcgtgtt ccggaaccgt 360
ttcaagaagc agttcccctt caaggggagg ctcggaagg acctgtttgg tggcaagggt 420
ttc 423

<210> 7864

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-E2

<400> 7864

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 gacgattacg gctccagggc gctgggttctt aggggcaggt acacgaagac ttcccaacta 180
 ttatcgacaa ggtcaagttg actcctgtag gtaagtggcg acaacagctc gttcagacga 240
 tggtagtggg cgttcgatgg tctcgaaatc tcgatgcatt tttattatta tgctttgggt 300
 gctttgtact tctggagaac tttggtaatg atctggatca ttttcccaa aaaatgcacg 360
 tgaaatgcta cttatattct atagatactt acaagtatat aataatcata tatgataaat 420
 cataatatgt gtt 433

<210> 7865
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-E3
 <400> 7865

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 tggccacgta tttcgaccgc gaccgtcagt cgaacgtaga ctacacaaat gtcaagaagg 120
 ttcttgatga tgttctcccc ggctacgcca aatctggagg caccttcacc aggcctattc 180
 gtaagtacgg caagcagtg ttctcccaca atacgacgtt ctgctgcgtc aagcagccgc 240
 ctggcgggtca gaagggtgcc tactacgcca tccatcacat gcgggcgac gtacgggacc 300
 atcatcaact tctgctaccg agtaaactcc aagattgggc cgcgagcgtg tcggcaatcc 360
 aggacgcgga cctccgacaa gaattctttc gcatccagtc ggagtttgcg gaaatcatcc 420
 atcaa 425

<210> 7866
 <211> 270
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-E5
 <400> 7866

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tcattttttt gtgtaataag gaggcacttc cttgcgtgcg aagatgtagc tgggtgggtcc 120
aagctgtcag tggcggtaat gtttttttcg caaaatacag aagccctttc cgtgggtccc 180
agatgtcaag ttgaagaatc attaatgtgc gcctaataag gaagcaattc cttgccttcc 240
ggcaatggac caactgtcaa cctccccaag 270

<210> 7867
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-E7
<400> 7867

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aagccagaat gcccaaacta taggtttcag ggttatagg gattgtcaac agtgatttct 120
ataaatcttg tttgagcatt agatttggtg ctgccttttt tttagccgtg acacatttgc 180
acatcgcatg ttcctatctt acaattggca accaggtgtc taagtggcat ataggaatat 240
atcaggcagc gtgtatgttc agttaaact tagcccgta ttggaatgat tgatgtcata 300
ttgcacattt tccacaatta aaaaaaaga aacaaaaat gaaaggagaa gacagaaatt 360
agagaccaa aaatagaata aaaggcaat aaaaaatagc ggccgctcta aag 413

<210> 7868
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-E8
<400> 7868

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tgaagatgca cttcgtcggc acctccttcc cgccagctcg agcgaggat cgggttgacg 120
ccagccgcgc gccctgctat tcgtcataca acgactacga gtacgcggcg gagtggaacg 180
ctgtggttcc ggcgacggcg gcggccgtgg aggaggaggt ggtggagggt tgcgacgaca 240
cggcgagtg cgggtacctg tggttgctgg aggaggagag gtcgtcgggt ggcgtgccgg 300
cgggcgagga cgacggcgcc gaggctagtc cggcggtgaa cgagatcgac aggctggcgg 360

agaagttcat cgcgagggttc cacgcgaagt tcttgctgga g

401

<210> 7869

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F1

<400> 7869

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cttatatttg gtacagatat ttctggaggt taaactactc taaaaaacgt cttatatattg 120

gtaaggaagg agtatacata aagccactag cccactgcgt ataaatgcac tgttcaagtt 180

caatagatag actatcgcta ctcatcaaac cattctgccc cctctttatc tatagcaaag 240

taactaaacc ataactgatg ataatggcaa ttctgaagtt gacagacaca cataaatgtg 300

tgggttatgct tgtataagaa aaccgagtca tccggttaac aagagaaaaa ctgaattaaa 360

gaccacacga caacagattg gctaactagc ataaggagca tcctctgtcg c 411

<210> 7870

<211> 64

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F10

<400> 7870

gagtcgtatt atgtttggtt ggtttgataa atatgttctg ctttctaaat tggatataaa 60

catt 64

<210> 7871

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F12

<400> 7871

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tccctcttcg caagaactgc atcctgacat gaagttactt ctttggttaga tcaatactga 120

gagcaaccta gatccattta gtagaagcca gataaacaag actcgaagaa gtgaattcaa 180
aaggagaaat ataaaaacag gctccaaggt gagaacaccc acttcctaca tcaagctaaa 240
aacgaaagca ttaggatgat taagactctt cttattacac atcgaagaac atgaggctaa 300
gagaaacaaa aactacaaca tatacacatc gaagaacacg aggttaaattg aaagtaattg 360
aaaggggtgtt acttaccaaa gctcgtttta cagggttcggt gcagctcctc tccaacttgc 420
cactttc 427

<210> 7872
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F5

<400> 7872

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gagcgagcac aagctgatgc aaactgcaga cctgttcgtc gatatacaagt gtaaaactct 120
caacacggat cacaccattg cggcgaacaa catcctgagc gcgatgcact agcaatctgt 180
cacgcctgag gatcaaagga tcttgtgatt aagtagaagt aggttaactca cacgcattgt 240
cgagtcgatg gatcttgtac aattggcttg gactttgtct ttgttatgcc gccccatatg 300
cttcctagcc atacgtacac tttcgtacgg ttgttcaatt gttttcttcc ggttggttacg 360
gagtccaaac tagctttcgg catcaacaat gtctgactga cgtgccttac ggtaaa 416

<210> 7873
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F7

<400> 7873

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taataaggcg gtgtattacc gccatgcccc gttgagctag ctgatgttgt ttcggctaga 120
gaaaatcggt acgcccgtc ataattcctt tttcgtatgct ctggagaata ataactactg 180
gtatatcatt ctatatatca aggccggctt gtgaaataaa tgatcctgcg ccccggtttt 240

tgtgtcgtcg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atagaaagga aaaaagaaaa 300
 aaaccaaaaa aaaaaaaaaa aggaacggta aaaagaaata attatgcttc aagcaga 357

<210> 7874
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F8

<400> 7874

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 cccaaattca aatatttatg attttaaata aaaaccttag gatggcctag gaaaatgtgc 120
 accacttttg gcagagggtc tgaaccaagg caaaaatgat gggcatttta gaagggcatt 180
 tcaggttcat tgaaaaatta ttttagtaac cctagttggt ttcagagggg actggggggtt 240
 ctgtcatccc catttcaagt ttctgatgaa agagtaaaca tgatgcaaca ctctaatagca 300
 tgactagcta ggggtgtgaca tcagcggaac cccaggccgc ccggatagat gcacggcct 360
 ggagccaccc tgagatcagc cccaggcgcc ccaacgctgc gcgaaagtcc aggcc 415

<210> 7875
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F9

<400> 7875

cgggtaaaaa caacgatggt agtgaagtgt ttgattgggt tgagaaatat gttctgcgtt 60
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 atgcaagaga taaacatatc accttattga tgaatgctgg tctcctgaca cgccaactaa 180
 tagatccaaa catgtactgg ttttctattc caagtattgg tcctatcttg aaaggcctat 240
 cccaggggag gaaggaagtt ctttcattac tgggcccgtc gaagtacaag gagatgctac 300
 tatcttcaact ggagaagacg aggttgaggt tatcacctct cgacgtgcgg ttccacctcc 360
 gcgatctgat tgggtctggt cacgtaaaaga ccgttcaaac acccaccggc ttacttgctc 420
 gca 423

<210> 7876
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-033-Q1-E1-G1
 <400> 7876

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 ctggtgatga tgaaaagttg cgagaacttt ttgctgagtt cggaactatt acttcctgca 180
 aggttatgcg tgattcaa at ggcgcaagca gaggttctgg atttggtgct tttaaatccg 240
 ctgatgatgc ttcccgagct cttgctgaaa tgaacaacaa gatggttggc aataaaccac 300
 tttatgttgc actcgcacag cgcaaggaag acaggaaagc taggctgcag gcacagtttt 360
 cacaaatgcg tcncgttcca atgggtccaa ccgttggtcc tcgtatgcaa atgttacctc 420
 ctggtgtttc agtcggtc 438

<210> 7877
 <211> 281
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-G11
 <400> 7877

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 tagagcta at cttgatattt gtattagcat gtttgagttt tgtatgtagt ctagtctagt 120
 gtggtgttcg tccgacgaag gcttcaggtg agcgcgcaa ggaggtgaga tgccaggatg 180
 ccgtgtgagg cggcgagcac ggcgagatgc cgatggtgct gccttagaag cggcaagacg 240
 tatcagaagc tggaaccgtt atggactgca tcaaattggg t 281

<210> 7878
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-G3

<400> 7878

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atgcccggcc acttgatgta cgacgggcag gacgacaacc tgtttgagca cttcagcgcg 120
gtgggtcaac ggctgggcgt ctacaccgcc atggactacg ccgacatcct cgacttcctg 180
gtccagaggt ggaacgtggc caacctcact gggctgtccg gggaagggag gcgggctcag 240
gatttcctct gctcactggg accaagggtc aggaagctgg aggagcgagc tcagggcagg 300
gcgaagcagt taccggttgt tcctttcagc tggatccatg gccggcaagt gcaactttga 360
gtggcattgc taaacaatta taagacaatt tgttcttctt attttcaaaa tatgaagcaa 420
c 421

<210> 7879

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G4

<400> 7879

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gggatcccggt acctgtcggc cctgaggatc tggctgggct tctccaccat cttcagcctc 120
acctacatct ttgcagcctg cgtgctgtcg ctcaaggacg gcttccgctc gccgcctcgg 180
gactacagca tccaaggaga accgtcgagc aggggtgttca ccaccatcgg cgcggcggcg 240
agcctgggtgt tcgcctacaa caccggcatg ctgccggaga ttcaggccac cgtgcaggcg 300
cccgtgggtga agaacattga gaaggcgctg tggttccagt tcaccgccgg ctccgtgccc 360
ctttacgcca ttatagtcac cggtactgg gccta 395

<210> 7880

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G5

<400> 7880

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aaagttgcat ggaaatatat ctcggaatgg ctatggaaat gccatgatag gtaggtatgg 120
 tggctgtttt gaggaaggta tatggtgggt gtatgatacg ggcgaaaggt gcgcggtatt 180
 agagaggcta gcaatggtgg aaggatggca aaaagtgcata ataatccatt gactcaacgt 240
 tagtcataaa gaactcatat acttattgca aaaatctaga agttatcaaa gcaaagtatt 300
 acgcgcatgc tcctaggggg atagattgggt aggaaaatac catcgctcgt ccccgaccgc 360
 cactcattag gaagacaata aatacataaa ttatgctccg acttcatcac ataacggttc 420
 atcatacgtg catgctatgg gaatcacaaa cttt 454

<210> 7881
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-G6
 <400> 7881

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 aaattttccg tgaatttcgg catgacttgt gctagaaagt tggacatatc gagtgctcga 120
 ttgtcgcgac gggaatgaaa caacatttcc gaaacaaagg tcactttttt taattattca 180
 ctttattata aaaagctcga taattaaacg actacgacat tgaaccctag gaaacatgac 240
 cgacaccgat gaggcgggag gttctcagtc ccaattaggt cgagcacacg cctacctcga 300
 ctttctggcg gatcaggaga gacagcaagc tgggactgag actggcgctg atgacgacgg 360
 tgggtggcgcc ggcgccgaca ctgatgccac caacgacacc gacactaaga ctggcgctga 420
 tgatgttgct aactacagca 440

<210> 7882
 <211> 313
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-033-Q1-E1-G8
 <400> 7882

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ccagtagctg acacgtggca cctatgccga tcggcatngt ggctcgtggga ggatcgggatg 120
 ggttggtaca agtatttcta ggaagacgtc gtgtagcgtg gaggcgggagc attaaactgca 180
 ctttctgatg atgcgcttcg atggtatgat tcacagattg tgtatatagg cgcccaggct 240
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 ctcgatggag tct 313

<210> 7883
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G9

<400> 7883

cggtggcatc tgactcctgg actccaacat ctggttgcca caaccagata gaaaggaaaag 60
 ggggaaaaag agggagagaa gcaaccgtga gtactcatcc aaagtactcg caagcaagga 120
 gctacactac atatgcatgg gtatatgagt aaagaggcat atcagtggac tgaactgcag 180
 aatgccggaa taagaggggg atagctagtc ctgtcgaaga ctaagcttct ggacatctcc 240
 atcttgacgc atgtagaaga gagtaggttg aagtcctcca agtggcatcg catagcataa 300
 tcctacccgg cggtcccttc ctggtcaccg cgtagagag cgatcaccgg gttgtatctg 360
 gcacttgga ggggtgtattt tattcagtat ccagttctag ttgtcataag ctcaatgtac 420
 aactccggg 429

<210> 7884
 <211> 192
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H1

<400> 7884

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 aagttcgatt tgtaggcttt tattattatt atagtatgta gagatgagat ttttatgttt 120
 tcatgtatat ttgttttgg atggggagggt aagatttgta gtgagtaatg tgatattgag 180
 gattggtttt ag 192

<210> 7885
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-H11
 <400> 7885
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 tcctgtcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa 240
 aaaataaaaa aaaaaaataa acacatcaaa aaatcaaaaa gattacatt 289

<210> 7886
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-H12
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 cagcggcgac ggcaagaagg acggcgacca caaggagaag aaggacaaga agaagaagaa 120
 ggacaagaag cacggcgagg gccacaagga cgacgacggc cacggcagca gcagcagcga 180
 cagcgacagc gactgagcca gctccggccc gcgctccggc agcgtgcagt gtaggcgaga 240
 tcgatgatga acacttggga gaagtgtgac agacatatat gttgcagggg ttggagcgtg 300
 tggtagcata tgtatgtaat gcgtgacatg cctcatggat cttgtgatgt ataataatta 360
 gccggccgca ctgcactgaa cggtgcttgt tataat 396

<210> 7887
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-H2
 <400> 7887

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 tgctggtatg agatagtcct tggttgattt atagaatgct ctttgcactt cacttatatc 120
 ttttgagtat ggctttatag aatgcttcat gtacttcaact tatatcattt gaagtttggg 180
 ttgcctgttt ctctttacat agacaaccac cattttctaga atgctctttt gcttcgctta 240
 tatttgttag agcacgggca tatcttttgt agaaagaatt aaactctctt gcttcactta 300
 tatctatttg gagagatgac aggaattggt cattcacatg gttagtcata aaatcctaca 360
 taaaacttgt agattactga atatgatatg tttgattcct tgcaatagtt ttgcgata 418

<210> 7888

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H3

<400> 7888

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 tagggggtcg tctcgtatgt agaggatcat gagcttcctc tactcacttt tagtttccac 180
 tccttctaag attttagcaa tatcatctat tatattagta ctactactca gaagttttcg 240
 gactggttcg tgtttacagt ttagtcaata ttgtgtgcat taacgctttc ttggatatgc 300
 attttgattt gactggatta ccttaattta tcatgtgtgc taactctaaa gtctaaacta 360
 tgaccatacg gttgccacat acctacgaag acatgaaatc ttcattcttg gtaaaataca 420
 at 422

<210> 7889

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H4

<400> 7889

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 ccagctgtac tgctccgctg ccgcaaagaa gatcaccata atgtggaatc tgtactgcat 120

tcagcaaaga atgagtatgc atcaaaagca gatgtccatg agcccgagat actagttgac 180
cacagtgtct acctgccacc ttctccgagc catggcgatg agcacggcca gatttgccat 240
ggagggtgttg tgctggcttc tcgagatgga aagatttgtt ttgagaatac agttgatgca 300
aggcttgaag ttgttttccg caagaaattg ccagagatcc ggaagcttct tgttgcgga 360
taatgcccac ttgtattttg gtgatggtac agctgtttct atgtaaaat 409

<210> 7890
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H5

<400> 7890

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tttttcgtaa ttaagcactt caactatttt aacgtgtatt ttcatcttt tccaattcga 180
ctagcttatc ccatgctatg caagacgcca tgtcttggag aggatgggtt ttgaagacca 240
tgaaagtatg gaaacaaaaa aattctccta aggacccatc atggtgtgga ttttcaagta 300
aagttgtaca atgctgagag tgtaacccat tttggttgca aaaattcgga agcactttgc 360
aagatgtatg gttttgatga gggatgctt gtcacatgg atcttggtga tcatacaatc 420
cagcaagaca atatgggcat ttgggtcctt gt 452

<210> 7891
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H6

<400> 7891

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gctgacgaaa gtgtcatgaa ctgtattagg ggccacaacc gaggtggcag cccttaagaa 180
ggcgtagcc aaggccgagg acaaagcggc caaggaacgc gcctcgcgcg agaagcggga 240

ggccccgggtc agcgagggtcc agcaagagct ccaggacgtc gtcgagaagt acgagtcctt 300
 ggagcgtgat tctaagactc aagagccccga acttgccaag gcccgccaga gcacacgaga 360
 tgcecgagaa aaagctcaga gcgccctcca agaaatccag 400

<210> 7892
 <211> 355
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H8

<400> 7892

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 caaccgggcg cactaaggcg gatcgatgat cacctgtggg cttcagcggg ggcgcaaac 120
 gatgcagtct gaggtactcc tgtagccgaa gtgatgtctc ttctacagtg tcaactctagg 180
 ttcacttcac tggccttcga ttaacaatca tcctgtaagg gaaagctcta gcggtaaaca 240
 tggtatccgc cgtctctcaa atcgccctat ctccaaccgg gttaacaccg aaaacgcccg 300
 taacgatcgc acgtcttatt atttgacac cgtgatgcga ggcttggact ctcca 355

<210> 7893
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H9

<400> 7893

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 cgaggagttc gtcaagggtga tgatggccaa gtgatccagc cgatgttcat gtcgggtggt 120
 attattattt ttaccgggga ggaggaaatt gtgcattgca tattagtagt aaggaatgcg 180
 gctctcgttt ccttgtctct gccccgaacc agaagaagcg tactagtaga cgtagtgtgt 240
 gaagagcact catggaatcc tctcccttg ctgctaccct gtctctctcc cgtgtgtcat 300
 tgaaacatct ttctttctgt gtgaatctgc aagacttggc cccttcgtga 350

<210> 7894
 <211> 405
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A11

<400> 7894

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aatgttagag ctaatcttga tatttgtatt agcatgtttg agttttgcat gtagtctagt 120
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ggtcgttctg tttgttggac tagctgttca tgcgtgagtt cgtttagtcc tagctgagag 360
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<210> 7895

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A2

<400> 7895

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gcctctgagc ccattccgac actatgggcg tcaaacatgg gcggaaaaac acatttgatt 180
caagctcgtc tgaaagacct atgtttctcc ctccagtccc cattcataca cgggtggcg 240
cataacacac tcgactcggc agaaattgat gtacgcaa attttcaata ggggcaggtt 300
tgtaacttca ctcacacgtg atacaagcgc cctacctgtc agcctcgttc atacactgtg 360
ggcgccaaac accctctcct cgcccgaat ccctctgggc aaatattggc g 411

<210> 7896

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A3

<400> 7896

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ctccgacacc gtttacatgt tacgacacgt ccgaccattt atcacctatt ttcacgaga 180
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aaaactctag aaaaatacga aacttggtga aaacaaaaac aatttgatcat ggtgccttga 300
attgttcata cgaggccatg aaaaaaatta ggaaattttc aaggatgtca aaaactgacg 360
tgctctctaa cacacccttt ctggccaacc tgaacacctt ccggtgaaca tgatgtttt 419

<210> 7897

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A5

<400> 7897

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ttgccctagt ttctccggac aacccttccc caaaaaatat gttttatttt atgtgttatc 180
tagaatagca tctaccagta ttctcatctc cggttggttg agtaaccgtt gggcctagga 240
ataaaaggcc cattggcctg ttccgggttg gccatcccat atgactccac atcatgagaa 300
aatcactagt taagaggat cccttgcaaa agttactctc aaactccact cagacaaca 360
agtttgtcaa aacttatcga catggtgttg ataggttttg atgaacttta atttttgaag 420
aaactttaat 430

<210> 7898

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-B1

<400> 7898

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gtcgggcccc tgcaacctct ccatcatcat ccggctggac ggcaacctcc tgtgcaccgg 120

cgacctcacc gcctacaaga agaactggat cgaggtgatg cgcgaggaca acttcgccat 180
 caacggccac ggcattcatg acggccaggg cccctctgtg tgggagaaga accagtgcag 240
 caagcactac gactgcaaga tcttcccaa cagcctgggtg ctggactacg tgaacaacgc 300
 gacgatccgt ggcattcacg tcaagaacgc aaagttcttc cacctcaacc tcttcaactg 360
 caagtcggtg ctggtggaga acgtggagat caccgcgttg gggaacaacc ccaac 415

<210> 7899
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-B10

<400> 7899

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 ttttcaatgg tctcgaagag agaaatttcc catttttctc tatggagtca caaccgaggt 180
 cgtggtaaat ccatgaattt gattcgattt gtttttctta tactatttgt ttttcttata 240
 ctatagaaat agaaataaat tttatttctt tcttatacta tagaaagaaa taaacctttg 300
 aattcagcat tattccaaga ctctatttc aaagtctatc ttttaaggga aaaatgaaaa 360
 taaaagtaac ccttcttttc ccattccctc tctattgcat ggggtggaaga actaaaatag 420
 aggattctga aaaaaaagga ccttcgaaat ccaattt 457

<210> 7900
 <211> 394
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-B11

<400> 7900

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 ttgccgaagg aaacaataaa agttgcttct tcccaccagc cagacaggca gctgcagccc 180
 gttctgcaca aaccgaagggt gcctgtagtc tctccctca tcaaacagca gcagtcaagc 240

accttggcga aagaagagcc ttgttcctct ggcaggaaga ctgaaaaaaa taccagaggt 300
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<210> 7901
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-B3
 <400> 7901

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 gaagtccagg gactgggagt ggaagtggag ctgcaacgag tgcaaggcgg accccaccgc 180
 gccggcagga ctcgtcgcca agaacaagga gttcgacaag atcatggata tcatacctgc 240
 catcatcaag caagcagtcg ccggcgcgga caattccacc aaatcggaca ccaaattcaa 300
 atccaaatcc tagggagcca actcttcgtt atgtctactt tcaaccttcg ccgttgatgc 360
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<210> 7902
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-B4
 <400> 7902

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 acctactcaa gttgctagcc atgctcagaa gtatttcatt cgccaaacaa atgttaatag 180
 gagaaagaga agatcaagcc tcttcgatat ggttattgag gatcctagtg accagccact 240
 ctcccgttca tcgtcacaag agatgccgct ctcccgttca tcttcacaag atgtagaaga 300
 gttcgtagat gatctacgac ctgttactgc tctgtgaca ccaccgctc ctatgcccggt 360
 gataacatct gtttctgtcc ca 382

<210> 7903
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-B8

 <400> 7903

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 taattccttt ttcgacgctc tggagaataa taactactgg tatatcattc tatatcaaag 180
 ccggcttgtg aaataaatga tccgccgtct tgccttcaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaatacataa g 271

<210> 7904
 <211> 333
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C1

 <400> 7904

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 atagatcaaa gagacgtcac atagacaaca tcaccatcaa cggaaacaga aataaacaac 180
 ggacattgca ccctcattat aggataacaa ccacgtgcaa caaacactac gactccaaca 240
 taatcccaa caaactaaat gccggagtac gctaacaac ctaacattca tggcaacacc 300
 ctcaataacg caaaattcta ccacctaac etc 333

<210> 7905
 <211> 339
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C11

 <400> 7905

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gcgaggaatc cggggcatcc atgatgcaca cccgcaccaa attaccaaaa gtgggcgctt 180
gtcatgcaag tcaagcggca agtcgctcgt gtctagaaaa cggatgatcaa agatggcgcc 240
gaccagaacg actaccggcg cgcactgcag cttattctca ccggcactcg caagaaattc 300
aaataaatgt gttgaagatc atcaaaggaa ggaaaaaga 339

<210> 7906
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C12

<400> 7906

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cggagtcgga gtggagatag atatggacgt gacaggtaca gagagaggga tcatcatcgt 120
cgtagcagga gtcgtagcac tagccctgat gattacaaga ggcgtggcag agacagaagt 180
cctagtcgta gcaggagccg cagctacagc cctgatgatg acaggaaggg tggcagagac 240
agtttgcgc ctgcacgcag aagcactagt cgctcccctc gcaagacacc acctcctcgc 300
gaggggtctc ctgctaagcg caatgatgat cgatctcctg ctaagcgcaa tgatgaccgt 360
tctcctgtta ggcgcaatga tgaccgttct cctgttaggc gcaatgatga ccgttcccct 420
gttaagccca attattaccg gt 442

<210> 7907
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C2

<400> 7907

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ctcgtgtggg ataacaacca ctgccacaag cactacgact gcaagatctt ccccaacagc 180
ctggtgctgg accac 195

<210> 7908
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C3

 <400> 7908

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 ctatgcttgc ctctccagat attaagttca tgacaaacag agtaatgcat gaagtatgat 180
 gacataatgt atacagaata aaaccaagca atatgattaa accatgtcgt tttccctta 240
 gtagcaacaa tacaaatacg tgccttgta cccctcctgt catagagtga ggacaccgca 300
 agattgaact tattagaaag cacctctccc cctgaagata aatcaatcta gttggccaaa 360
 ccaaacggat ggatcggaga gaaatgcaaa gctataacaa ttacacataa taaagttaaa 420
 aaaagac 427

<210> 7909
 <211> 314
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C4

 <400> 7909

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 cacgtcacia cggaatggac acgcgcgtaa acgggtcgat cggtcgacct gacctggatt 180
 gccgctgccg ttaacgctgc acacattgtc gatgttccac atgttttact actattttct 240
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 ggggaggtga attg 314

<210> 7910
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C9

<400> 7910

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cgttttaaga tatttggttg tcttgtaatc ggatatatta tgcgctccag aacatctgag 180
atgtactaaa cttgagccta aataactggt tgctgtcaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaactaaa aaaaaaaaaa aaaagaaaaa aaaaaaaccc aaaaaaaaaa acaaaaaaca 360
aaaaaaaaaa ggggcgcccc aaaa 384

<210> 7911

<211> 458

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-034-Q1-E1-D12

<400> 7911

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gcactgcaga gagagaatgt ttttctgag agacctgac aaccggaatg catatactac 180
ataaagactg gagattgtaa atttggtgca gtttgcaa atccatcatcc ccgtgtgcgt 240
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gagctctgca agttctattc tcgctatggc atctgcaagt tcggcgtaaa ctgcaagttc 360
ggccacccga tggcggtcc gatgggggtc tacgcgtacg gctactccgc ctggcgctcg 420
cccaacgcgc ccatgggccc gcgtctctg gagtcccc 458

<210> 7912

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-D3

<400> 7912

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 agcgggctgt tgagtattta tattctggta ttcttgagcc gatggagatt cctgcaccac 180
 caccaagtgc ccagccagct gatcctgccc tggcttcaca agcagctcaa cctgcagttg 240
 cctcttccgg tcctaacgct agccccttgg acctcttccc tcaagccctg ccaaattgctt 300
 cagcaaatgc tgctggtgaa ggaaatctgg atgttttgcg taacaatgca caattccgaa 360
 gcttactttc tttagtgcag gccaacctc aaatcttaca gccattgctt caagagctgg 420
 gaaagcaaaa ccctc 435

<210> 7913
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D4
 <400> 7913

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 gtctatttac catgtatgat gctattttcc aaagggtttt gatgctgcat gtgaaagttg 180
 gtgctgttgt gtaatggcgt aattgagtgc cgaagctagc tgatgtaatt caattatgaa 240
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 tgattagtag atggattatc aataataggc taattaccct gcatagtggg gttttctatt 360
 gcacgcggtt actt 374

<210> 7914
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D7
 <400> 7914

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gtaagtaaag aatatgtaaa attattatcg catagatagt aacccatgat gctctgttcg 180
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 gtcaatatgt gtacgcaggc ttcgctgctg gcctctgctg cactgactgc ggaggtggat 300
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<210> 7915
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-E11
 <400> 7915

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 cgacaccttg tggttcgagg accgtgttta tgtgccaaac aatgcagaga tcaggaagtt 180
 gatacttcag gaagcccatg agtcgccata ctcggtacac ctcggaaca ccaagatgta 240
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 agccgtatgt gatgcatgtc agagagtga ggcagaacat cagaagcctg caggattact 360
 gcagcctatg cccatacccg aatggaagtg ggataagctt ggcatgggtt ttatcaccgg 420
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<210> 7916
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-E3
 <400> 7916

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aagtgaaccc gacgcactac cgggagccaa ggttttacac caaggtgttt aaggaatgcc 180
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 gaatcctgcg ttatgagcgc gtgtttgggg agggttatgt cagca 405

<210> 7917
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-E4

<400> 7917

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<210> 7918
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F1

<400> 7918

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 gtcatgccct cgtcaaggag gaggaggact ctgactaagc gtgggcatg ccggagccgg 180
 gcttaaggaa cagcgccct cgggaggccc ctcccgttgt ttgttttttg tttcctgcat 240
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cagtgtttcc cgcccatatt ctaggattta cattgttact aattgaaagg ttcctgcctg 360
 gcgcgattag gataacttag cttggtgcgc ctgtgaccct tggcgggtcc ctgcgtcaag 420
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<210> 7919
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F11
 <400> 7919

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 ctgtggtgcg tgtcgtgtgg atcgagttag ttgtactacc agaaattcgg aatgacatgg 360
 aaaccatgca tagcatagca aaataaaa 388

<210> 7920
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F12
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 aaaatctatt agtcacgaa acaaagtact acacgcatgc tcctaggggg atagattggt 240
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 taaatcatgc tctgacttcg ttacataaca gttcaccata cgtgcatgct acgggaatca 360
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<210> 7921
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F2

<400> 7921

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catccaaggt agaaacctcc aggtccatca aatgcagagt gactgatgcg aagtggaagc  180
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atgaccatgt atttgccttc tatgagtatc tttgtccaac tgtcaacata ctttcaaact  360
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<210> 7922
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F4

<400> 7922

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gaaccaactc atccaaccaa agattctgca gaaagagagg gagcttaaac cgtctcgcca  180
tatagggtggc attcatttac gttttggaaa catccatcat gtacgattcg ttttttcaaa  240
cctcctccct atatgtatgt tgtggaccac agttgcgggc gtgttgcgcc aagggttgga  300
gctccagcgg aaagaacggg agatggggct actagaggcc gttatccggg aaa           353
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<210> 7923
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G10

<400> 7923

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tgagtcgatc ccggaacagg agccatgcaa agatcttcgc gtgatttggga acgcgtgaag 120
accagatggc aatggcatgc atgtcgtcgt cgtcatcgtg ggagcccatg gtttagcgcgt 180
atgctgccct cgtggagatt catcatcacc acccttgatg tctctcccgt ctccaccttt 240
caccttggca ccaacaccca acatcaccca cgcagtaatc catctatagt tctgcacaca 300
aaggccgggg aaaagacagg cacaacagct acgagctcat gcacaggatc atagtctggc 360
atgaatttca cctgattttg ttcacgcgaa tgatgcaaca gtacttggtg gatcgtgggtg 420
aactgtatat ttaattttct cctcaagg 448

<210> 7924

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G11

<400> 7924

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aaacatacac tagtagaaca tagggctttc gttcggggcca aataagcccc ttagtcccgg 120
ttcagtcatg aaccgagacc aatgggggca ttgggtccggg ttcgtgaggc taaaggcatt 180
agtcccgggtt caaatgggac ctttagtccc ggtttgagac acgaaccggg actaaagggt 240
gcgatgccct ttagtcccgg ttcatacctc aaatcgggac taaagattag acctttagtc 300
ccgtaggcct gtttgcaa at ttctagaatc ctcaaattct aaaaggaaaa aaagttatgc 360
tcaaaatttc atttttatta aaaaaatttg gttaaactctg gtcaaactaa ttattcaag 419

<210> 7925

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G12

<400> 7925

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 cttctcaatg acttgggaga tgatgaaaag atgaaggaat ctggatttat agttcctcaa 120
 aatgtacctg ctcacagctg gctgaagcgt ggggtagatc ctctccaaa ccgttatggc 180
 ataaaaccag gccgtcattg ggatggagtg gaccgcagca atggatacga gaaggacatg 240
 tacaagctaa agaatgacaa gcaggccacg gagcaggagg cctacctttg gtccgtcgca 300
 gatatgtgag cgccgcagct gtccaagaa catgtccgat ggcatgctga ctggatcagt 360
 tgctgagggt gcccaatgtg cctgaaagga aaggaagcga tgcccttgaa catcatttct 420
 tcgaacacat gatgac 436

<210> 7926
 <211> 304
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-G4
 <400> 7926

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 caagtacatg agttcttttg actaatgttg agtccatgga ttatacgcac ctcaaccttc 180
 caccattgcg agcctctctt gtgccgcaca actttcgctg gtactataca cccagcatat 240
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 tata 304

<210> 7927
 <211> 313
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-H1
 <400> 7927

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 gctgtgctca tctctgctct tcctgacggc accgttgctg tttcaccata gaaggaatac 120
 caccacaagg tggatgagat aaccatatgg cactatcctc tgatcacact cactcttgac 180

actcaagcat tgaacatca gtagtttagc tcacctctga catcactgac ggtatccgcg 240
aattttcctt ggaccctatc gtggaaaatg ctgtatcatc aaaaatgcta tagccaaagt 300
ccaaaaattc atc 313

<210> 7928
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-H10
<400> 7928

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gtgatgatgg agcgttgatt cccatggagg atgattctga tgacagtgag gatggtgatg 120
attcctctga tgatagcgag gatagctctg atgaggagga agaagaaaca cccaagaagc 180
aagagactgg gaagaagatg gcggttgaa gcgtgttgaa gaccctgtt actgacaaga 240
aggccaagat tgcaacaccg tcaggccaga agacaggtga caagaaggga gctgtccatg 300
tggcgactcc gcacccggcc aagaaggcgg gcaagacccc agcaaccagt gagaagtcgc 360
ccaagtctgg agggctctgc gcgtgcaagt cgtgcagcaa gacattcaac agttagggcg 420
ctctagct 428

<210> 7929
<211> 411
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-H12
<400> 7929

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accatggact cgggtgcgtc cgcccccttc ggccagatct tccgccccga caacttcgtc 180
ttcggccagt ccggcgccgg caacaactgg gccaaagggtc actacaccga gggcgccgag 240
ctcatcgact ccgtcctcga cgtcgtccgc aaggaggccg agaactgcga ctgcctccag 300
ggattccaag tttgccattc tttgggagga ggcactggat ctgggatggg cacccttctt 360

atttctaaga ttagggagga gtaccctgac cgaatgatgc tgaccttctc t 411

<210> 7930

<211> 291

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H4

<400> 7930

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attacgacat agtaactaag aataaaccta cactatacaa taaaggattt aaggatatatt 120

gcatccactg ggcacgaag ttcgccactt gtgatcataa agtgcaacga agaagcagat 180

tacaaaaact tggcaccatt gcagcgtaat aaaataatac tgaaccgaga ccacttccaa 240

gatagttcaa gaaaggttag ccttgccggg gaactgctgt gcaagctgct g 291

<210> 7931

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H8

<400> 7931

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gtgcggagac tgaattctga cagcgtctac gatctgtcgt ccatgaaagc agagctctct 120

gtcaagaaag gagggttgtc caagtactac gacggaaagt cccagtcgtt cgcgtgcatg 180

tccgaggtga ggtgcctgga ggacctgccc aagaagagcc cctacaagaa gatcaagtcg 240

tgcaggagca acatcgatct ggacgggaac cagaaagcct gccccgtacc tggttctcac 300

aacagcaaag gaatggccaa gccctctgga agctcttgcg cgaatctgat ggcccggaat 360

aacagcgcaa acatgctcta caagcctccc g 391

<210> 7932

<211> 458

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H9

<400> 7932

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attcttagtc tcaagcacac tacacagttc tacagaactc taccttggtg accccgtatg 120
tcgatgaaca caagaacagt ctgcgctcca aacacccgga gcagtgcgac gactggatta 180
catgtgaaca cgtcaggact ttcagcagtt ggttggaac acgtctcaga ggtgacagca 240
ctgtttgtga tgagctgtac ttgttgcca ggggaccatc ttcgactgta atgatttgga 300
aaggatacga gataaatggg aatacathtt acatgattga ccaagatgaa aagagcacca 360
acaaaaacag cgggtgtccgc tttgatgcag caacctacaa tggaaatgac acatattatg 420
gttacatagc aaacatatgg gaacttgact aacgggta 458

<210> 7933

<211> 263

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A12

<400> 7933

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aaataaaaag aaaaaaaaaa attaaaaaga aaaaaagaaa ataaacaaac ataaataaaa 120
aaagaaataa catcaaaaaa agcgctgtc ttaaagtttc caaccttctt tacccttcca 180
gacaatttca acctccgcaa aattttcccc acatattcat ttaagggacc ttctttttac 240
aagctcttga tgggaaaacc ctg 263

<210> 7934

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A2

<400> 7934

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atgcttgata attgttttga gatatggagg tagtgatatt aaagtcatgc tagttgggtg 120
attatgaatt tacagaatgc ttctgttgaa ttagcaagtc tcatagcatg cacgtatggt 180

taaagttgtg taacaaattt gaaacatgaa gtgtacctgg cttgagcatc cttatgagtg 240
 gcggtcaggg acgagcgatg gtcttttctt accaatctat ccccttagga gcatgcgtgt 300
 agtacctgat ttttgagtac tttcaaattt ttgcaataag tatatg 346

<210> 7935
 <211> 307
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A3

<400> 7935

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 gtgatcgccc cgagcacggg cggggtatat attgaccatc gagtgtcatg ttgtttcgct 120
 gtgctggggg tttgttgctg gggttttgtc gtcagatttc accagctcgt ttctttctcc 180
 ggttctttgt ttctttcaca cggtaaatgc agctaccact cgattcttgg cgtttggtgt 240
 ttgtaaagaa gatcgtagct tgtaagtaaa atcgtttgca gtgtaaaatg taaaaggta 300
 gcatggg 307

<210> 7936
 <211> 345
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A5

<400> 7936

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 aatttgatgc tgcigaaaaa cagaatcgtt atgcgcacga ttataatttt agtaatttac 120
 agaaacgtgc gtttgcaatg attcgtttct cggtagatga atgtacaaat tatccaggac 180
 atcctagttt ggtaggattt tttaagttcg agacgtttgc gtgacataga gattgctaca 240
 gactgttctg tttttgacag attctatttt tcgtgtgttg tttgcttatt ttgatgcgtc 300
 tatggctagt acgtaagggt aataaacata cagaacttgg aatac 345

<210> 7937
 <211> 441
 <212> DNA

<223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-B3

<400> 7939

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 gtgagtgggg aagatataga tgccaggcgg gatatggtga gatacaatgc cgatgtctaa 120
 cgacagcagt gggctgcgag acacgggctt ctgtccagcg acgccaagaa agaagcggta 180
 atgacggggc cgcaccagtc tacgcgtatt atgggtcttac agtccaattt tgtgtttttc 240
 atatcaacat gattgtttta cgtcaattt tctgaatatt gttagtgact aactatttcc 300
 taattttgtt tatttaggtt gaatgttgtt tcattcccca cgcggctgaa tccaactcgg 360
 tctttatcct gccttgagtc tctctctcat aactgaagcc acgaggtatt cgatttatcg 420
 gatttcgagc tacctgc 437

<210> 7940

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C1

<400> 7940

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 tcagcggcga tgagacggcg cctttcttcg gtttcttcgg cgccgccgcc gcgtcgtct 120
 tctcatgcat gggggcggcc tacgggacgg ccaagagcgg ggtcgggggtg gcgtccatgg 180
 gggcatgcg gccagagctc gtcataagt ccatcgtgcc cgtcgtcatg gcgggtgtgc 240
 tcggaatcta cggcctcatc atcgccgtca tcatacagcac cgggattaac cccaaggcca 300
 agccctactt cctcttcgac ggctacgctc acctctctc cgggctcgcc tgtggcctcg 360
 cggggctcgc cgccggcatg gccattggca tt 392

<210> 7941

<211> 365

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-C2

<400> 7941

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gcatcgatcat aaaaagggaa aggcaaagga taagtcgaag cgtcacacat acaaagaggc 120
aactggcact gatgtggctt cagatatccg agaaaacggc aaggaagagg ctgtgatacg 180
catcgcggaac gacggggaat gccgcaagag caacaaaggg aanggccgcc atgangacaa 240
gaacaacgtg aatgtttcaa tcgtttccgg cagcatagag aacggtgctg gtgacgagca 300
tgccaacaag tcgggctcaa tggcaatgaa ccctcgttcg gaagggtcca ccgacaaaact 360
caatg 365

<210> 7942

<211> 245

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C5

<400> 7942

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ctacggtaac tggaaccggt tcatcatatg caaactctac gacaacaccg caaccaagac 120
ctacggtcag ttcatcatac cggcgtctt ctggatccat gctaagtctt cttacggttc 180
agctcagatc acttcgaggt tgcttcctac agtctatcag cgggccttat attccactct 240
tttaa 245

<210> 7943

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D6

<400> 7943

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ggcttgatgca tcggtacaat tggcggtcgg cgacgagcta cggcatttca ttaacagtcc 120
atgcctgat gagcatgccc gtcatacttg acttgggatg aattccagtg ttttgcata 180
agtatagcat ttctctgggg g 201

<210> 7944
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D7

<400> 7944

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 ttgcttttgt tatgaattta gtcctaatat gataggcatc caagagggat ataataaaaa 180
 ctttcatata agtgcattga atactatgag aagtttgatg cttgatgatt gttttgagat 240
 atgaagatgg tgatattaga gtcattgctt ttgagtaatt ttgaatttga gaaataacttg 300
 tggtgaggtt tgcattgtcc gtagcatgca cgtaaggtaa ccgttgtgtg acaaatttga 360
 agcatgaggt gttctttgat tgccttcctt atgagtggca gttggggact agcgatggtc 420
 ttttcctacc aatctattcc ccta 444

<210> 7945
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-E3

<400> 7945

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 acgacctaga tttagtttta ggctgccttg ggacgtcctc ccacatcctt ggccgccacc 120
 ctttcctcct atataagtag atccatctag tagcttttcc ttgggatttg tttagttaaa 180
 agttagccat tgcaacttcg tgtacttcgt ttgtgtccaa cgaccagacc aagaccgctt 240
 ccggatcccc accattatca atacttcata tatattcgca atactcagat tgctttatca 300
 tattcttgct cgttcttcga ttgcttgagc gaatagacct tcgtggtcag gttgatcgtg 360
 ctccagcgtg gtcaataacc tctcggagtt ggtttagcga ttgcaaaggc gcaacgtcgt 420
 gcac 444

<210> 7946
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-E4

 <400> 7946

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 aacaacaaaa ataaagaggg gaacccaaaa ctttttcaaa aagaaaagcc aaagtgagaa 180
 agacaagcaa tgtgtaaaat ggagagaccc ctgaaactgt gtacaggcac acaacaactt 240
 tgagaaccga gataacagaa acttttcaac aaaaataatt acccccggtg acaattccat 300
 tgtattataa aaataatgtg ccagggtttg ccttttaggat gtttacattt gcttgatggt 360
 ttgtacggtg caagacagaa actttggctg tantgcgcga ttttacattt ttagctggaa 420
 cgtcaaattg ttctgattct ttttgcac 448

<210> 7947
 <211> 379
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-F7

 <400> 7947

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 agcttccaac gccagatttt gcgagggggg gacgatagtt ggtcgttggg tgtgttggcc 180
 ccggttttgc ctgattctgt atcccgttgc gagaaatact gtaacaaatc cgtcagtggt 240
 gtacctagtt aaattatctt caagtgacag tagaaatggt tcgtggagag ctttggtaat 300
 aatggcgct tctgtgcttg gaaaagtgac ctattccaac aagacacgaa ccggatgctc 360
 aataggatat aggcacaca 379

<210> 7948
 <211> 281
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-035-Q1-E1-G1

<400> 7948

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tgctttgggtt tttgatgact tctagatfff tgcaacaaat atatgagttc ttttgactaa 120
tgttgagtcc atggattata cgcacctgac ccttccacca ttgcaaccct ctcttgtgcc 180
gcagaacttt cgccggatag tagaacccca ccatatatct tctcaatac atgccaccat 240
acctacctag tactgcattt tccatagcca ttctgagata t 281

<210> 7949

<211> 344

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-035-Q1-E1-G11

<400> 7949

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cgaagatgat caggacgagg aggacgagga gtaagttcaa taactgtaag actactaacc 180
tgatgaagca tattcagatg tcgaatacta acaccattca tatgcagacg attatgttta 240
tgatgaacat gacttttgca tcaagggctc ttcacgggcc gttattagct gcctctcttt 300
acgatcctag cttaccttcc ctttcttgcg atttcataac tctt 344

<210> 7950

<211> 396

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-G4

<400> 7950

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actgtcatct ggaatgggcc gatgggagtt tttgaatttg agaagttcgc agctggcact 240
gatgcgatcg cgaagaagtt ggctgatatc acagcaaaaa ggcgtgacaa ccatcatcgg 300
cgggtggcgac tctgttctg cgcgcgagaa ggcanggttg gtgagtaaga tgagccacat 360
ttcaaccggg ggtggcgcaa gcctggagct gttgga 396

<210> 7951
<211> 449
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-G5
<400> 7951

ggtcaggact tcccgggccg acggggagca caagaaggac ggcgagcaca aggagggcat 60
gatggagaag atcaaggaca agatcagcgg cgacggccac ggcgacggca agaaggacgg 120
cgaccacaag gagaagaagg acaagaagaa gaagaaggac aagaagcacg gcgagggcca 180
caaggacgac gacggccacg gcagcagcag cagcgacagc gacagcgact gagccagctc 240
cggccgcgct cgggcagcag cgtgcagtgt aggcgagatc gatgaacgct tgggagaagt 300
gtggcataca tatatgttgc agggtttga gcgtgtggta gcatatgtat gtaatgcgtg 360
acatgtctca tggatcttgt gatgtataat aattagccgg ctgcactgca ctgcacggtg 420
cttgaataa taacgttaat gaatcatgt 449

<210> 7952
<211> 442
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-H1
<400> 7952

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caacttgca aaaatgctca aaagggccat gcagagccaa aaccactgcc tagcttcaag 120
aattttgtcg tggaagagga ggaaggtca ggaggttatg ggatcgttta tagggctcgg 180
agaagcgaag atggaaaagt atttgccata aaatgtcctc gtgagaaagc tcattcacat 240

catgttgaca atgaacgaaa gatgttggaa cgatttggag gcaagagttt tgtgattaga 300
 tacgaaggct gttttaggag tggatgaacta gactgcttta ttctagaaca tgtaagcat 360
 gacagaccag agattctcan nagagaaata atgtctttga gttgcagtgg tatgggtatt 420
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<210> 7953
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-H2
 <400> 7953

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 gtgtcaaaat gtgtgcattg atgcatgtgt tacatgcgat tgtgtgaggg acggacgaat 180
 cgagagagat ggttgtttgtg ttatggatgc tcctctctgt ctctctctct tgcacacaca 240
 caagtacaaa tagaagaccg ttctctcatg tatacacaac gtatcgacat ctctctatgt 300
 ctcaactcatg catgatcatt tgcacattca cacctctcta tgtctctatc acacacacag 360
 tctccacatt gcccttccgc cacaacacac atatggacac atacacacgt tctctctcag 420
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<210> 7954
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 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-H3
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 gtgtttgtcg agatccgatg aattttgggt taaggatcaa gtttacctat gagaaatatt 180
 tgaatctcct ctgaattott taatgtatga ttgagttaaa tttgcaagtc cctttgaatt 240
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<210> 7955
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 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H4

 <400> 7955

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 tcaacgacgc cgtcttcgcc gacagcgggc gcccacaacca gaggaagttc gagaaggatg 180
 acctcatccc gcccaagccg ggatcgtagc tcaccaggct cacgcgcttc gccggctgct 240
 tgccgtgcaa gcccggaag ccctgctaaa ccttggtggc cccgcgggcc ggccggagcc 300
 gatcccttcc gaatcttcaa ttctatagct ttgttcaatt cttttactca aagattcgtg 360
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 gtccttgtac gtgcattcgc cg 442

<210> 7956
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H6

 <400> 7956

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 ttggttcggg ctgttaatgg gttatcggat ccaaagtgga acccaatagc ttaacaacga 180
 cccgttacga tggatgccac gtgtcgggtca cccttgacga aagcacttct atgacgcgtg 240
 atttatcatc atggaagtgg acacttccgt tatgataatt ttggtaatgt catggaacac 300
 ttctacgaca gcacaagtat gactatcttg atcctgtcat aaaatcgtca tggatttaca 360
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<210> 7957
 <211> 345
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H8

 <400> 7957

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 tgggtgtttct cacggttcct tttccaacat tatttgtgtg tgcatgtgtg ttttgtaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa 240
 aaaaaaaaaa accaaaaaaa aaacaaaaaa agaaaaaaaa aaacgggccc cccaaaaggt 300
 tccaatctaa cttacccttg aatgcaatth aaaaccctc caaaa 345

<210> 7958
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H9

 <400> 7958

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 aggtgggaca ttccctaccg aaaaccatca tgcttggtgt gagaagctcc ggtttgtag 180
 aagcgtatac ccaaactgc cccaaatggg acaaaatttg taccacggca tgttgatgcc 240
 gtcocatgat agcatgccaa gtttcttgaa tttcagatga cttttggatt tacttgaatt 300
 taaaaaccag gcattctaat gttttgctgg caatcaacgg tgccctgggtg ttcgaaattc 360
 attcccatth cttgcatggg acctaagcat gcaccaagg acacagattt ggthtttc 418

<210> 7959
 <211> 196
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-A12

<400> 7959

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atcaaaccaa ggcttgctcg aaacaacgag tgcttccaac taacaacagc cctgggggag 180
ttttgtttaa ttattt 196

<210> 7960

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A2

<400> 7960

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agcaacaaca tgcattctgc cagtttgtga ctgggtgctcc tcggcttcca cctgggtggct 180
tagcctccct aaatcctaag ctgactatcg ttaggaagca ctctctgact gcggcgaata 240
cttcaaatgc agctggagca gcagagtctg cagatgatga tctgcctagt gtcatgactt 300
gtgccaaacta tottaaactt ccgccatact cgacaaagga ggttatgcac aagaagctgc 360
tttatgctat caacgaaggc caagggctcg ttgatctttc atagtgggtt caaaactaac 420
atacagatgg ttggtgcaca tgt 443

<210> 7961

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A3

<400> 7961

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actaagagga aggctaacc taaaaacata aatccttgaa gccccaacct ccgttactag 120
tttctacaa agctctctct ctctctctct ctctctcaac gctaacccta cctccacac 180
gaacgctctg ctttcaactgg acaagtccgc ctccgttgcc gctagctatt cttctagtgc 240

ccggaccggt gaccatccct tctctgataa tgtggaacag atatgttaga agctccaaaa 300
attgaatgtg ttgcacgagc agcgagcacc acacttgtgc tagtgcagct tgtgggacgg 360
gacagggatc cccgcaagaa taaattactc aataggtagc ggggacacgg acgagaatga 420
gcagcggaca tagatgagtt 440

<210> 7962
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-A4
<400> 7962

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atgccgttca ccttcgggct gcagcccagc caccccaact tgcaggaaga caagtaggcc 360
accgaatcct gccacggcct gtgtcaactg aagctcctct acctgc 406

<210> 7963
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-A5
<400> 7963

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tcgagcagta gtttgtctac actccgattg atcgatcgat ccacacgacg cgccatgtgt 180
atatgttacc cgcaccaacg tccctctctc ccaagtggac atagtgtgga gctcagctgt 240
aaatatggtg ggacatttgt gcttcggcct cctgcaaaag ggatgagccg tgcggcagat 300
gcgattgctg ttttttcac atcttcttct tctctctgtt ttagtttcaa tcaactggacg 360

tcaccatgtc tgacactctg accgaaactg tgaattgtca aaagaacgaa atttggcgga 420
ctggtaaaat taatctggg 439

<210> 7964
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A9

<400> 7964

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ggtatgggtg gtatgggcat gccgcctggt atggaagggt tgggtgggtat ggggatggat 180
gattttgagg atgagagtga cgacgaagga gaagtgtcga aacctcaaga cgcaggggaag 240
tctgatgctg cggaaatctc cgaggtggaa ggcaaagctg gcacagctgc tcagagcaac 300
tgaaggcttt ctactcaata atccctactc gactgtatcc tagcgttttt ttatcaacgt 360
gctaaactga aggacaca 378

<210> 7965
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-036-Q1-E1-B3

<400> 7965

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taataaatct cagatgacaa cactttctca aaacaatcat gatataatat aacaagatgg 120
tatctcgcta gccctttctg agaccgcaaa atataaatgc agagcacctt taaagatcaa 180
ggactgacta aacgttgtaa ttcatggtaa aagagatcca atcatagtca taccgaatat 240
aaattaatag taatggatgc aatgacagc ggtgctctca agctattgct ttttaataag 300
aaagtgatga ctcgacataa aattaaataa ataggccctt cgcagacgga agcagggatt 360
tgtanaggtg ctagagctca attttaaagc agagataaat aatattttga gcggcatacc 420

ttcattgtca acataacaac ccaag

445

<210> 7966
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B4

<400> 7966

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gtgttggtgaa gttttcaagt tttgggtaaa gattcgatgg actatggaat aaggagtgga 180
aagagactaa gcttggggat gccaaggca cccaaggta atattcaagt acaacaaaaa 240
gcctaagctt ggggatgcc cggaaggcat cccctcttct gtcttcattc atcggttaact 300
ttacttgag ctatattttt attcaccaca tgatatgtgt tttgcttgga gcgtcattct 360
atattatttt gttttgcttg atgtttaaat aaaataccaa gatctgaaat tattaatat 418

<210> 7967
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B5

<400> 7967

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gtataggagc cagcagagac tacaatgtag acatgggttc aaagtttatg atggcaaatg 180
gtgctttggt cegtgtactc attcactactg gtgttaccaa gtatttatcc tttaaagctg 240
tggatggaag ctacgttttc aacaaggga agatccacaa agttccctca actgatatgg 300
aagctctcaa gtctccattg atgggattgt ttgagaagcg aagagcaggg aaattcttcc 360
tttatgttca agattacaag gaaaatgacc caagtactca caaggggct 409

<210> 7968
<211> 393
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B6

<400> 7968

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ttcccagtga tcttggcaca cttcttcattg cttctgtagc acacggagag gaggatggac  180
ggcgaataag cctgggaaga tggttgggtg ttgtttttgg atggtaactg aattttgctt  240
gggcagtagg gtttatatac aggtctctgc ttctttgggt ttgattgttc ctaaattgat  300
atgtctgtgt tgatgtgtat gcggaaaata ttaatatgtc gatatacaag gtgttggatc  360
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<210> 7969

<211> 423

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-B9

<400> 7969

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caatattgta ctagcacact tccagataaa ctgtactcca acttactaac ggatgagctg  180
cactgaacga cggcctaaag gatggtgagg agaaatgata ccgtacttga gtttcttctc  240
aggagaacca gttttccgtt tacctagtta agatgggtctt ttattcgtct agaattgtca  300
gcactgtgga tgggtcttga tcattacatt atacggcctc attttttaca aaactgcgtt  360
ctgacgaaag ccgcactcaa caaccggggg tctctcttaa tcttangaga acaatancta  420
tct                                     423
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<210> 7970

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C1

<400> 7970

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aaagagatgg aggatgcagg tgtcaactccg gttagtaaga gctggccctc caggtgcagg 240
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catgtctgaa cggagccgac gatgcgctac ttgttgcaat agaagaggct cgatcggggg 360
tgttccagcc caacagagag aacgacgagc ttacgcgtgc cctgggaaat cctgaacacc 420
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<210> 7971

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C4

<400> 7971

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aagagaagag gaaagcaact ctcaaagaag ctgtccagta cgtcctgaga cagtggcgca 180
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ttcagcctgg tgtagcattg acatgaatgc tagtacttgg agattgtgaa tcgccctttc 360
aggataatct ttttcgtgcc aagctatgtg ctagtatgaa tgaacggcta ctagtttggt 420
gattac 426

<210> 7972

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C6

<400> 7972

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 ggacctacta aagtggagat ctatgcatct tttggcggcc tcctgatgtt gctcaaaggc 180
 gatccttcaa gtgctgctaa cctcgagctg gatcaaaggc tgttcctcct catccgaaag 240
 gtgtaagcgt gtaatctacc ggataaccag tgcttgtagt tcaactcagg ctataccaag 300
 cctgtgattg tttggatgct aatcgtcctg cacccttatg tactcttttg gcggtaatat 360
 gactagattg gtaccattct ctgtagctta ttctgttcc cctggagcgc attat 415

<210> 7973
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-C8
 <400> 7973

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 cagattccct tcactatcgc acgataatct ctactgtaca attgcacat agaccagac 180
 tacacgaaaa atcctagtcc tgcctgaagt gggagtgaag aacggatgca gttgggcaca 240
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<210> 7974
 <211> 373
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-C9
 <400> 7974

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gatccctgat accaagcaga tggacaaggc cgccttgcta gccaggggtgg tggaccaagt 180
gaagcacctg aagaggagag catgcgaggc cgcacagcaa acgcgggtg tcccaccgga 240
gaccgactag gtctccattg aattctgcgc eggagacaat gactccagac tgtacatgaa 300
agcctcggtc agctgcgacg accgcccgga cctcgtcgcc gggctcatcc aggcgtcca 360
tggcctcagg ctg 373

<210> 7975
<211> 438
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-D1
<400> 7975

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tgagaagttt gatacttgat gaatgttttg agatatgagg atggtaatat tagagtcatg 360
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<210> 7976
<211> 434
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-D11
<400> 7976

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caatccagtc atatattgat gatgtattga tcattgttta tcagaagttt tctacacatt 180
gctgctggat agagcatcta ttgcaactac aattggcgat atctacacag atctatacat 240

aaaagataat aggaagtaag cttctatagt gtgacgtaga ggtattggcc atacaccatg 300
aatgatagag gttgtgcagc tgatattcat agtttaatta cttattcctc caaagagata 360
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gttcaactat gcct 434

<210> 7977
<211> 195
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-D12
<400> 7977

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tttgtctgga taaagtgtcc agttgaggag gtctcgatat gaggaaaagg aagaggcaag 180
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<210> 7978
<211> 429
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-D3
<400> 7978

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<210> 7979
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D4

<400> 7979

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gtgagcatat cgggcttgat gtatcattag tggctcacc ccaatctaag ggtaagctg 360
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<210> 7980
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D9

<400> 7980

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agttcaaaaa tctggtgctt aagaagtgat gtccgtaggc aggttagttc gtcggtgtct 180
tcacgtccca ccaaggacct ctaccttga cctgacctgt ggaatgaatg aatataatga 240
agtgttaact tgaccttta cgggctaaaa aaaaaaaaaa aaaacaaaa 289

<210> 7981
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E1

<400> 7981

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agcacagatg acagtttaac agcaagtgca gcacttcctg atattcaaca agtcccagaa 180
caagaagcag tcgaagataa ggcattgcact gacaccacag aaaaccaagg ggaacctcaa 240
caaagcattg tttctacttc tgctgagctt actccaacag aagaagaaac agcagtagta 300
aagcatactc aagatacaca tgtacagaat gccagcagtg aaccgggaac tgacccaaat 360
ttgcttgtcc aatcagcaca tcaatcagaa ttggctgaag acagcaaggg tcaac 415

<210> 7982
<211> 332
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-E10
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tgatatatat ctacttggg agttagaaac tgaacaatgt ttacatgtt tacaatatcg 180
cgaggagaga cgggttgctg ctgctgtttg tgctttcacg agttttgcat gtatatggtg 240
gtctgaacat tgtagattat atccgattcg aactacttgg gctgcgttga caactgctat 300
gcgtacgcct tgagttccac catattatca ac 332

<210> 7983
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-E2
<400> 7983

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acgcagtgga cctgtcgtcc attagacacg gacggcacgc atgtaattga cacaccggta 180
cgcgtgactt gctcgccccg cagcacttat acgatacaca tcagaccgcy aagagaacac 240
tcctcgtgaa cagtgcact atcattgcag actccttgcc cgatactcct gttgcggtgg 300

atagtatcgt agtgtttaca tcatcatgga tcacaactga caccttctat cagctaaaga 360
gtatttgctt agctgcttag tccttcagtc ccacctc 398

<210> 7984
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E8

<400> 7984

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gcttatcgca aaggaggctg cgcagcggat gaactaagtt tagcattggt gaaccatata 120
tattcctcat ccttgagtag tgttcaagca tactgtggct gtttggctcc agttttggaa 180
gtcatttttg tttgtctgag acatcttgga aagaacagtg taagaatgaa gtattttctgt 240
ttaatgccag ttagtatttt tgtcgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaacaaaaaa aaaagaaaaa aaaaaaaaaa aaaagacaag aatcaaaaca acccaccaaa 360
aaagggaaac acacgggaac ccagag 386

<210> 7985
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E9

<400> 7985

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cagttcaagc gtccgtgga tgtatcagag aaggaaattg atgccgcggg agatggtgat 180
gtgttggtca ttttggatct cagagctgat caatcattga ttgaagctgg agtggctcga 240
gaggttgtaa acagaatcca gaaattacgg aagactgctc agcttgaacc cacagactta 300
attgatgtgt actacgagtc tgtagacaac agcaatacac ttgaagaaat tttgcagtca 360
caggatcagt atattaggga cgtgcttggt aattcgct 398

<210> 7986
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F1

<400> 7986

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 gccgtcagac ctgaagaaga gcattatgca ggctagaacg gacaagaagc tcacacaggc 180
 acagcttgca cagctgatca atgagaagcc acaagtcac caggagtacg agtcaggcaa 240
 ggctatccca aaccaacaga tcatoggcaa gctggaaagg gctcttgga caaagctgcg 300
 aggcaagaag tgaagccgcy tgcatctgac aggagtcgag gctttcaaga gagcttggct 360
 gggcaagttt accgctaaat aaagcttgtc tactaaatca tgcgacttaa gaaaaccct 419

<210> 7987
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F11

<400> 7987

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 gtagatacgt tggagacgta tcaactcccc caagcttaaa cctttgcttg tctcaagca 180
 attcagttga taaactgaaa gtaataaaga aaaactttta caaactctat ttgctcttgt 240
 tggttgtaaac atgaaaagcc agcattcagg ttccagcaaa tattatgaac taaccatact 300
 cacaataaca cttaggtctc acaattactc atatcaatag cataatcagc tagcgaggca 360
 taataataaa actcggatga caacactttc tcaaaacaat cataacatga tatagcacia 420
 tggtat 426

<210> 7988
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-036-Q1-E1-F2

<400> 7988

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tccaaacacc gttgtatggg taacatcttg attaatcctt gcctcttacc taaatggttg 180
gggtactttct ctcccaccct gtatgccatg ttctgcttgt acatgggaag gatatactcc 240
taataatagt gtgtaaacac aattttcctt tccattgttc tgtttaatct tataatcgtg 300
ttttcctttc cattcttttg tttaaccttt cctgaatcta acttaactga gcagagataa 360
atccctgctt aagtangcac cttgttgtac cactctgtct g 401

<210> 7989
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F3

<400> 7989

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ccgcccgggac atgatctgag tctgtgcgga tcggactgcc ccttgctaga taatgtacgt 180
acgtacgggt accattaacc aagcatgtcg tgattgcatt attttttggc ccctgattgg 240
atctcatagt acttatgata tacttataac caactcaacc cccctcctcc ttgctcttga 300
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<210> 7990
<211> 419
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 7990

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 ttgccatgca actttccacc attccattta tcatgacaca ttcattattg tcatattgct 180
 tagcatgatc atgtagttga catagtattt gtggcaaagc caccgttcat aattctttca 240
 tacatgtcac tcttgggtcca ttgcatatcc cggtaacccg ccggaggcat tcatatagag 300
 tcatcttttg ttctagtatc gagttgtaat cattgagttg taaataaata gaagtgtgat 360
 gattatcatt ttctagagca ttgtcccaag tgaggaataa attaanaaaa agagagaaa 419

<210> 7991
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-F9
 <400> 7991

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 tgacgaatgt gagtccatgg atatatgcac actcatcctt ccactttgct agcctttatt 180
 attaccgcbc aactttcgcc ggtatcataa accccttatt tacctttcct caaaacagcc 240
 accataccta cctattatgg catttccata gccatttcga gatataattgc catgcaactt 300
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<210> 7992
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-G1
 <400> 7992

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 gatgggatcg agctgtttga cgtacgtagt agcttacgta tgtgtgtatg atcagacgtg 180
 gccatgtgtg attcgattgc tttcaaaact gctaggttgt cctctcgatg tatcatttgt 240

tttagagaga taagacaaga ttttaagcatg atatggttta tcaattctgg agatatggca 300
acaagttgag caacaccctt gcatgttcat gcatgttacg caacactgca ataccttgtc 360
atgccacaca atatgggcgc gcatagacac cggaagctaa gccgatat 408

<210> 7993
<211> 409
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-G3
<400> 7993

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cagcaacgag gcggtcgagg aggcgcggat caagctgctg gagctgcggc aggtgaacaa 120
ggtgaaggcg ctcgtcggcg ctttcgagac cgtcatggac gacaaccaa gccccgccac 180
cgccccgaag cgcgggctca acctccacgc ctgaactacg agtacattcc accagcatga 240
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atgtgtcgtc gtcgcacact tatctataat tacggtatcg cttatatattt gcaaggagga 360
agatgatgga agggttatca tgatgtaata ataataatga tcatggaag 409

<210> 7994
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-G5
<400> 7994

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tgaccggtcc atcctcttgt tgattcagcg atttcgtcca cgctccctc tctccttct 180
ctcgcgtgcc gtgcggtgcg gtgcggatta agtgcaatt aagtgtacat aattcaagga 240
ttaaagggcg gccattagag tagattattt ctttcgtttc ttggtggtgc gagtaataac 300
tagaaatctc tcgcgaataa ctgtgtcgcg aatatcgatc tgagatcaa gagattgacg 360
acgcttgaag gggatataaa aagcagtggt tgatggtc 398

<210> 7995
 <211> 393
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-036-Q1-E1-G9

 <400> 7995

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 ccttgtgtcg tgcaactttc accggtacca tacaccaac atataccttc ctcaaaacag 180
 ccaccatacc tacctattaa ggcatttcca tagccattcc gagatatatt gccatgcaac 240
 tttccaccgt tccgttcata tgacacgcat tactttctgtc aaattgcatt ttgcatgatc 300
 aggtagtga catcgtaatt gtggcaaggc caccttcata attttcatac atgtcgctct 360
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<210> 7996
 <211> 388
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-036-Q1-E1-H3

 <400> 7996

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 gttttttcct tgttttagag tatcgcagaa aaggaaaatt aagtggagtc tagttgacct 180
 gaaactccac ggaacttatt tttggaccag aagaagccca cggagtatcg gagatggacc 240
 agaagagtcc caggctgccc acgatggtgg gggcgtgctc acgccccctg cgcgcgcccc 300
 ctgcctcgtg gacagcccgg agatccaccg acgtacttct tctctctata tatacccata 360
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<210> 7997
 <211> 366
 <212> DNA
 <213> *Triticum aestivum*

<223> unsure at all n locations
<223> Clone ID: LIB104-036-Q1-E1-H4

<400> 7997

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catcgagata cagtaccacc angcgttcat ataaacatct aactcgttc tgaatatcga 180
attggttcac gactgttata cgtaagggtc ctggtaaata tacgtatcat tgtacctatt 240
tcacttgata cgactgttgt tttttcacac tgccaccatg ccatgtccaa gtgaggcacg 300
cagcttctca aacttgtgtt gttgtgcctt gtatgctcgg atcttaagta cattactttg 360
tttcac 366

<210> 7998
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H8

<400> 7998

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tgttcgtccg acgaaggctt cagggtgagcc cgccaaggaa gttagaatcc aggatgccgt 180
gtgaagcggc gagcacggcg aaatgccgat ggtgctgcgt tagaagcggc aagacgtatc 240
aaaggctgga gccgtgatgg actgcatcaa attgggtccg gtgaaccggc cggtcgttct 300
cttttgttgg actagctgtt catgctgag ttcgtttagt cctagccgag agtatcgttg 360
ctagtagttg atgcatgcat gt 382

<210> 7999
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H9

<400> 7999

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gataccaatt gttggcgccg cctcctcgcg ttgcagcgcc gtccttctt ctacctcaag 180
ctgccttaga caactctctt gaggtttctc tcaag 215

<210> 8000
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-A6
<400> 8000

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agcggcttgc attgcagctt ctaaagtagg tttctacttt tccatccggc caaggatttt 360
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<210> 8001
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-B1
<400> 8001

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aattgcttcc ggtcgcaagt acatctcaca cagtcagtcc gcgcgaaacg tttccattcg 180
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401

<210> 8002

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B2

<400> 8002

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cgccatgtga cctttgagaa cgtggagagg tggttgaagg agctccggga tcacacagat 180

gcaaacattg tcacatgct tgctggcaac aaagctgac tccgccatct tagggctgta 240

tcagtggagg atgccaaggc ctctcgtgag agggaaagca ccttctttat ggaaacatct 300

gcgctggagg ccatgaatgt tgagaacgcc ttactgagg ttctgactca gatctaccgt 360

gtggtcagca agaaggccct cgacatagge gatgaccctg ctgctccacc g 411

<210> 8003

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B4

<400> 8003

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ttcatgtcaa gttgcaacag tgcacgcaca caccagggag gcttctgtac ttagggacgg 180

tgaatctgca tcaacagtgc tggatggaaa atgcacgccg tccttcttcc ataaaccacg 240

tagggacctt gtattagcct ccccatctaa ccgtcaggaa gccctgacat gccctgctat 300

tgctgtcaac aatgctaccc tatgtagcac acgaactgaa ctttaagtatg tcacatggaa 360

cttcaggtagc caaagccaac agaaccaata ttaatg 396

<210> 8004

<211> 99

<212> DNA

<213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-B5
 <400> 8004
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 cgctccgcgc gtgacacttg gcgcgggggg aactataaa 99

<210> 8005
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-B6
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 tgactgatct cgaggagac atcctcgccg gccggcacct ggatgatggt gagcaactgg 360
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<210> 8006
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-C2
 <400> 8006
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 cagcatcata tccatcgtgt ccatccaggc acggatcgtg acgcaatacc ctttcccat 180
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tccaaaatat actatcggta cgtcgggtcg cagaccaagc agcagtacat cgataacatc 360
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<210> 8007
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C3

<400> 8007

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cgtcgggtcg tgggagacca aggacagcca gctgacgatg gtggcggacg acctgaagcc 180
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caaggagatt gtggagaacg cgtgcgtggg gaagaggagc tgcgtgctgg ccgtgtcgca 360
cgatgtgtac ggcggggacc tcaactgccc gggc 394

<210> 8008
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C4

<400> 8008

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tcggtgctat atcgtatggg tttcacctct agcctatccc aacttgtttg gaaccagatg 180
ctttgttgtt gtcgtccatt ttgcacacag accaataaat gatttaacac tcgctataac 240
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<210> 8009
<211> 416
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C8

<400> 8009

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tgagcacaac ggatcccaag ctgcagggca gtttcgtcgg cgtctatgat ggccatgggtg  240
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ctgagcagaa gtgcatgtca gtggaagtaa ttcggaaggc tttccgagcg acctaggatg  360
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<210> 8010

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C9

<400> 8010

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ccgtaggggg ccaacgcca caagccgcgc gacatcgtgc tctccgggac agcagcttgg  120
tccatgaagc cggcgggtcga tccgcaacag accagcatgc gatcaaccgt gcgtgcgagg  180
catctcgcta cgaccactat tacgagctca tgtacacttt gcacaggtca ggtcgagtag  240
cacatctaca tatatctacc gtgggattgg gactcgacaa tgttggtacg ctgtcgggca  300
cctatcttct tcgctgggtc tgctggttcc cttgactgcg acgggaatta ctttagtatg  360
tactgtatcc atc                                     373
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<210> 8011

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-D1

<400> 8011

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 acacatcgtg agcatggagg acgacacaac cccggcggcc gccccggctc tccggcgcac 180
 gcacgcacgc acgctcttga agaagaagaa gaagctaaat gtcatgtcag tgaacgctga 240
 attgcagcgg ccggccacga tcgaccgtcc ggcgtgaaga gacggacgac gacgaattcc 300
 gagccgacca tcccaccggc atgtagtaat gtaatccctt cttcgteccc agttccccaa 360
 cgctccatg a 371

<210> 8012
 <211> 101
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D10
 <400> 8012

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 atatattgac aaggggtcgc atcttttgtg cttagttttt a 101

<210> 8013
 <211> 103
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D4
 <400> 8013

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 ccccaaaagg cctactccga attcgactat ggggactcag ccg 103

<210> 8014
 <211> 339
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D5
 <400> 8014

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gattcaagct ctccacgaaa gccggtttta ctcgtttggg gcacttagct cttccataat 120
 taccttgctt cccaagaatg aggactccaa tgcaccttgg agacttcagg ccgatcaact 180
 tgatacatgg aactgcgaaa atctttgtca aggctttggc tactacgctt cactccctac 240
 tgccttcctt aatatcccaa gcacaaagca cttttgtctg caaacggagt atgcatgaga 300
 attttaaatt cgtgctgaac actgcaagga cccttcaca 339

<210> 8015
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-D7

<400> 8015

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 atggatctcc ttggtgagcc acctactgta cagtgccatg tctatgacaa gctatgcaac 180
 acaagcaatc tagtcaaaat gctgtcgatt ctttttgaag tttgttactg aatgaatacc 240
 tgaaccaaac ggtcatctgc gtatcatttt tgttgtgaat cttccccttc tgctggaatt 300
 ggtcctgctt cagctgggtc caaccgaagg gaactgcacc aacagtaccg acgaaagaga 360
 actgaagaaa gcagcagcag cagcaaagat tcctgtaca tactct 406

<210> 8016
 <211> 271
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E10

<400> 8016

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 cttgtctgga ttttccttcg ccagttgat gataactgga aggaagttag tagcaaaatc 180
 atttctgcag gcagttacgg ctgcattgac tgctgtctcg agcaactcag atttgtccgc 240
 ggctgttttt tcgcagcatc agcggcgttt t 271

<210> 8017
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E2

<400> 8017

ggctgacggg acggacccac atggcctgtg gatgatgcaa cccgaggggc gccccagta 60
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 aataatgcag ctccgggggc gctcccagct aaatggactt ggaaaatgtc atctggtttt 180
 gttgttgaag gagcgttgtg gtagctaaag gcgcgcgcta aagaaaccgc tcctcatgag 240
 ccgcaaaaac ccaaagccct cgggaggctc tgggggctcg ggtggctccc tgaggaccat 300
 ctctatctcc gccaggacca catgatgcc ggctcctctg gtttcagga tgctccgtag 360
 gctgcgtgg aaagcggctg ccatgctcgg caggccaaat ggcatgcgaa cat 413

<210> 8018
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E9

<400> 8018

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 gcccttgga ttttcttcca tcttcgttgg ctgatcggga cgataaagaa gtggcctcac 180
 aagtcagcat ggatgacgat tgggtggaaa cgaacataga atttgatgga caggatgaaa 240
 gcgtctctgg caatgctgat ggcatactta ggcgtgtgga attgcatcca gcaaagagta 300
 gggttatggg tgatgaaaac tcatcaatga tgagcagctg ggtaacaaag gactcgaact 360
 cttcggatgat ggcctgggag actgacaagt cactggtaga aatagccaag gagattgatg 420
 agtacttctt gaaagcagcc gcaa 444

<210> 8019
 <211> 93
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F2

<400> 8019

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tcaacgagac cgacagccag gagatccacg tgg 93

<210> 8020

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F4

<400> 8020

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gaaccacta cctacatcaa tgctcccttg gtaggggttc ttgcctactt cgttggcaac 120

ccaaaccag gccatatcag aactgagca taagcacttt gccatgtaga tagagaagag 180

tgacagaagc tataaatagg tacacaggaa gcaaataggt ttgtgattgg atggcactac 240

atgttcatag gagtggattg cagagcatgt gttctaccaa taatgagagc ttatctttca 300

tgatttttct tttgtttggg tttgcaactga attttgtttt gtgtgaaggt gtgcacagtg 360

caatttaact gcactgggtg agtcatgagt gaagaaagct tgcattttgc acaaataatt 420

ggtatggaag gtactcctgt ttcaag 446

<210> 8021

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F5

<400> 8021

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ccagtcagcg gaagaagccg ttcaaaagaa acaatcaggg accgtccagt ctggaccgta 120

tactggagcg ctctgtcaca cccaatatgc gatactatcc taaagagact cgaaggtccc 180

accaaggata gaaccgcata ttgaaacgct tttgcaaggt ggatatcatt acatcaacat 240

tacataatag atggagatac atacaagagg catcgaatgc catacgaata caacatcatc 300
 atacataaga acatcatccg actacggatg aaacacaaac agaaactcaa atgacatcca 360
 ccctgctagc cccagctgcc aacctggaac ctattccccg a 401

<210> 8022
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-037-Q1-E1-F7
 <400> 8022

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 tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgatccagg 180
 agccgatcca tctacgtacg gtttcgtata tcaatttcat gcaactacct actccgggtcc 240
 cgatccagcc tcagcttcac ctgaggcccg ccctaatttt gtttgatcaa tttttttgct 300
 actagtagta actagtgatg atcactgttg caccatttat ttattttata tcgtcacaac 360
 tttccagtgt ttcttttctt tctctacctt tntgtcgatc gtcgggtcca gtcgatcga 420
 acga 424

<210> 8023
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-F9
 <400> 8023

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 ctgatgcata gcctatcctt gctactactg ttgatacctt tacctgcaat cctacatgct 180
 tagtatagga tgctagattt ccatcagtg cctacattc ttgtccgtct gctgtgttat 240
 actatcgggc cgtgatcacc tgggcggtga tcacgggcat atacttatat actatataca 300
 tgacacatgt gatgactaaa gtcgggtcgg ctcgtaggag taccgcaag tggatctttg 360

tggcggagcg acagggcagg ttgagaccgc ctacgtaaga ggtgggcctg gccc 414

<210> 8024
<211> 255
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-G1

<400> 8024

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atattgtcgt agtgcttagg cgaagccctg tgcagatcac atcagcaaca ccaagccgtc 120
gtgctaacgg aactcatcga ctcttcgta cctctactgg atcaagagtt caagggacgt 180
catcgagctg aacgtgtgca gaactcggag gtgccatacg ttcggtactt gatcggttga 240
ttcgacaaga cgttc 255

<210> 8025
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-G2

<400> 8025

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tggcgcaggc ggtggaggag tggtagccgc agatgcccat catcacgcgc tctacctca 120
ccgccgccgt cctcaccacc gtcggctgca ccctcgagat catctcgccc taccacctct 180
acctcaaccc caagctgggtg gtgcagcact acgagatctg gcgcctcgtc accaacttcc 240
tctacttccg caagatggat ttggattttc tgttccacat gttttttctt gcgcgtact 300
gcaaacttct cgaggagaac tcattcaggg gaagaacggc tgactttttc tacatgctct 360
tgtttggtgc tactgtcctg actagcatcg ttctgattgg tgggacaata cttacat 418

<210> 8026
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H6

<400> 8026

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tatgctgcct gttcaaata ga tcttcttatt tcaggggaaa tgatctttac aaccactca 180
agcatccagg acgcagtcgc cataataaag cagtttgatc gtgtatcgat cacgtagacg 240
gtcagcaccg cttttcatta taatacagaa aaagtaagta gtaaattcag ttattattat 300
gctaattggac atagtaacaa ttttgtttct gacgtttttc caaccgtctt gacaacatct 360
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<210> 8027

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H7

<400> 8027

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ttttcggttg ttgcttcact cgagcataaa cgggactcac ctctaccaca gataccttca 120
cactatattgc gactaagaga tgcaaatata cctgcttctt ctatccaaaa gtacctcggtg 180
catatactca gtctcccaag tgagtccgag gtggaaataa attgctgcgg gcagccagtg 240
aaccttacac aacctctgcg caatttagta gagttgtggc tgagggggcg atcagcacag 300
gcaacaccgg ccattgtagg ctccccgcg gaagagtttg tgatggtgct aaattatgga 360
cggccaaagc ccatggaacc tttgagtga cagtaatgat tcaaccatt tccttttgaa 420
aggtccgggc ttt 433

<210> 8028

<211> 357

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-038-Q1-E1-A3

<400> 8028

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atcacacgta tccttggccg gctgggggac aagactccat gtcttggcag tcgcagtagc 120
caccgggacg ctcggtgact gttccggccg tcatttccgg cggcggtccg ggaaacatca 180
acttgccggg tggcgggccac ttgcaccggg agcgcccgtt aagctgagat tattgtctcc 240
agctttgagg gttcctagag ctgcttcgcc tgcagctgtt gagaatggga gctctagcan 300
cagtaataca gtccctacac caaaagttat aatagatcaa gactcagatc cggatgc 357

<210> 8029
<211> 374
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-A5
<400> 8029

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gaggcaccac gtcaaggagc tgctgcacca aattaaata acttgtcggc ttcgatccgc 180
ccaggcctaa gcaatccatg acatatgtca tggcgagtcc ggacagtcta ttcagctcgg 240
cccactaggg taggcgatcg tccactgcaa gtggacgccc tggattggta aactgcgacc 300
agaagagttt ctccacttca tgattgtcct tatcttgaaa gtacctggtc gcatcggaac 360
cactagcctc caaa 374

<210> 8030
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-A7
<400> 8030

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acaggcaaga agttgttgaa gactcttcag gatcaaccca gaatcattcc atcaaacaac 120
tacaagagac gtagcaacac ctaaggaaaa ctgagaagac tgcacggggc acagggcacg 180
actactgagt ccgagaaccc ctagggtagg atgagtcgcy taccctctat gcgcagatga 240

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 ttttagatag gccgcaactt ttgccctatg caacaagtac gcaactatat caccttcctt 360
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 cccctt 426

<210> 8031
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-A9
 <400> 8031

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 taacaaaatt agataagtat ctatctaaag taagaatttt tttctttcag aaagaagata 120
 agaacaagag gctcaccacg gtggtgctgg cgacgagatc gacgcgggag atcgacggcg 180
 gtgaagacgg ggacgggaca tgacggaccg ctaaacctag acaaactctg gggaaaatgg 240
 agctcggagg tcgagtttcg agaggagaag gattaactaa ggtggctcag acatttcac 300
 gaacacctca tgttcatang aggtgagcta gagcaccctaa atgcncctcc cctcgccgg 360
 ctagaaaaaa acagagcagc tcggagagac tgcggagccc gaggtgaagg tgctgaacct 420
 gaccatcctg t 431

<210> 8032
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 8032

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 tccgccgcgt gccgctcttc gccaatatgg acgatcgct cctatacgcc atctgcgatc 240

ggctcaagcc cagcctctgc acggagtcca cctacgtggt gcggaaggg gaccccgctcg 300
acgagatggt cttcatcatc agaggccgcc tcgagagctc caccatcgac gggggccgcg 360
tanggttctt caacaaggag ctcttc 386

<210> 8033
<211> 392
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-B12
<400> 8033

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gacgagagga agcaggagg ggccagggga agcaggagg ggccgaggcc tctcgggcgc 180
gcgccacgcc tcggtccttc tggcgaggag gaagacgaca gggggagtgg agatgggctg 240
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atcctggaaa caattatggg tgctttctga at 392

<210> 8034
<211> 209
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-B3
<400> 8034

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gaaaaaaaaa aaaagaaagc tcaaaaggaa ccacacataa aatacacaaa cataaaacaa 180
aataaatcca tctagacagt catcaaaaa 209

<210> 8035
<211> 442
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-B5

<400> 8035

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taccttggga tccgggtgga ttcattactt gagcactata tgcctagctt aatggcttta 120
aagaaagcgc tgccagcgag acaacccgga acttttagag agtcatttat ttctgttgag 180
tgctttcata tagtttaaaa acaacaaaaa taaagagggg aacccaaaac tttttctaaa 240
agaaaagtga aagtgagaga gacgagcatt gtgaaagtgg gggacgtcct tgaactttgt 300
tcatgcccac gggaactttg tgaatcttaa ttacagaaac ttttcaataa aaataattat 360
ccccttgtag aattccattg tattataaaa ataatgtgcc aagggttgcc tttaggatgt 420
ntacatttcc ttgatgggtt gt 442

<210> 8036

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D4

<400> 8036

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aaggtaaacc caaaatttcc cttagggtac cctatgaaaa cgcatttttc taacttgggt 120
tcaagctttt caggttgagg tttcttgaca taagcatcgc atccccaaac tttcagaaac 180
gacagcttag gtttctttcc aaactataat tcatacgggtg tcgtctcaac ggatttcgac 240
ggagccctat ttaaagtga tgtggcagtc tctaaagcat aacccccaaa tgatagcagt 300
acatctgtaa gagacatcat agatcgcacc atatccaata cagtgcgatt acgacgttcg 360
gacacaccat ttcgctgagg tgttccaggc ggcgtgagtt gtgaaac 407

<210> 8037

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E3

<400> 8037

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tcggtggggt gtttgacgct cttcgtgtca ctgatgacct gttgatgagg agggcatatt 180
ttaggaagca gcagcttgac aacaaaacaa catcacctaa ctctaactga agaggacagc 240
cgggtgtgatt tgctcttaca ttgatatcgc atgcgtatga ataatgggcc aatggaattg 300
ggagcggagt aagaagetca tgttgccctt atgcatgtaa taatcatgcc tgcctgcatg 360
gcccgcctagc tgttgggtcca atgcctggct gcctgcctga actggcgctca atttccagtt 420
tgttttttgta atatataata actc 444

<210> 8038
<211> 184
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-E4
<400> 8038

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tgaaaaggca ttgcaatgat gtgatattat gatatgcttg aagcacgcct agtgactttg 180
atgt 184

<210> 8039
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-E6
<400> 8039

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gcaaggagct ctccgacctc tgcagccact gaccgtaccg atcgaccgct cgacccgatc 180
gatgaaacga cgatggtggt tcctgtcgcc tgcttgccctg gcggcaacgc gtggtggtgg 240
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tcttttgcag tggcagtgcc ggtctgggat cggagagtgg agtggagtgg agtgtcgag 360
cgttttggtc aggtcatcat gttgttgct 389

<210> 8040
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-G1

<400> 8040

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atcaaggaca agatcagcgg cgacggccac ggcgacggca agaaggacgg cgaccacaag 120
gagaagaagg acaagaagaa gaagaaggac aagaagcacg gcgagggcca caaggacgac 180
gacggccacg gcagcagcag cagcgacagc gacagcgact gagccagctc cggcccgcgc 240
tccggcagcg tgcagtgtan gcgagatcga tgaataacac ttgggagaag tgtgacagac 300
atatatgttg cacggtttgg agcgtgtggt agcatatgta tgtaatgcgt gacatgcctc 360
atggatcttg tgatgtataa taattagccg gccgcactgc actgaacggt gcttgaata 420
ataacgttaa tcatgttggt attga 445

<210> 8041
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G2

<400> 8041

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acacccccaa ccaccctttc tacagggttg gaggcacga caaattcatc gccaggcaa 120
agaagatccc cagcaagaac gcttgatgac gaggtgtggc caccgccctg tacaagttaa 180
tttttttggg atttcagctg tccgccgaa acttgctcac aagcaggagt gtgccagctc 240
ctgctgaggg atccttgttt ttgttcgttt ttactccaat ttaccgtaa taagcaactg 300
cagtgcatt ggtttagtct gcacaacagc aaactactc ttggcttgga aaacttgt 360

gccctttgta atgaaaaacc ggacgcactg c

391

<210> 8042
<211> 177
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G4

<400> 8042

ggccaagggc cggcgccaac cggggccggc caatttcg caaaacctta aaaaaaatg 60
ccgcaaataa aaatccaaaa aaaaaaatat aaaaaaaca aaaaaaacc ggcgggccaa 120
aagatcaaac taacttcct taagcaatta aacctcaat gtacaaaatc aataacg 177

<210> 8043
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G8

<400> 8043

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gtcatgtccc ctgagagctt cettgcaagg tagaggaaag gcttctcgaa gttgtagttg 120
ctcttggcag agatctcgta gtactggagg ttcttcttcc tgtggaaggt caccatcttg 180
gctttcacct gccggttctt cacgtccacc ttgttgccgc acaggacgat cgggatgttc 240
tcgcacaccc tgcagatgtc tctgtgccag gtggggacgt tcttgtaagt gagtcgggag 300
gtgacatcga acatgatgat tgcacactgg ccatggatgt agtatccgtc acggaggcca 360
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t 421

<210> 8044
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H5

<400> 8044

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 gaatcacgag tgaaactcaa ataagagatc taaccagaaa gttcagctta agaactctgg 120
 ttcgcaaaat gaatcaaatc aaacgaagca tgaatactca agcggtgaga gaagcaagct 180
 tcgtttatta atctggacta aggtcaaatt ttacagtagc aaaaacgtgg ttaagttgga 240
 taaacggaaa gagggtttcg agacgaagct ctaggcgctt gaatcgcttg attccgataa 300
 atgagcgaaa agttatacta gaacgaagat cggatcagaa a 341

<210> 8045
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H6

<400> 8045

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 ataacctacg atgatatgtt atttgattct gctgaaaaac agaaactttg cacgcacgaa 120
 tataattttg ttaaatacaca ggaatgtgct tttgcgatga ttctttttga tgctgttcca 180
 taaaaaaatt gtcccgact tcctattttg gtaggatgtt tagagttcca gaagtttgcg 240
 ttagttacag attgctacag actgttctgt ttttgacaga ttctgttttt cgtgtgttgt 300
 ttgcttattt caatgcatct atggctagta aattagttta taaaccataa ataagttgga 360
 atacagtagg ttttaacacca atataaataa agaatgagtt cattgcagt 409

<210> 8046
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-A10

<400> 8046

accgggcgta tattccggat cacggggtat gactaatact atcgatatag gttattctac 60
 atgattactc 70

<210> 8047
 <211> 423
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-A11

<400> 8047

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tttctactgcc gcaagtgcgg atcgtgctac tcggtgaccc tccgggataa gcatgtctgc  120
atcgaggact cgatgaagaa caactgcccg atctgctacg agtacctgtt cgactccctg  180
agggaggcgt cgggtgctgcg atgcgggccac accatgcact tgcagtgtt ccacgagatg  240
ctcaagcacg acaagttcac ttgccccatg tgctccgtgt ccatctttga catggagaaa  300
ttcctgaggg ccttagatgc cgagattgag gccaagtctt tacacatggg aaagggatgg  360
atcgtgtgca accactgctg ggacacgacc cgggtgtatc cgggcatgac gggacagaga  420
aag                                                    423
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<210> 8048

<211> 114

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-A12

<400> 8048

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ggtgttatgg tgctacctga atgagttata ccggtgttgt ttggtaccat gcat         114
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<210> 8049

<211> 396

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-A4

<400> 8049

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gggggtttca gcttgttctg aaactgcaac cttggttatc agccgactta caccgggatg  120
gtagcaggcc agcaagcagc acttgctactg aacttgtttt tgcattgtcta gatggggaag  180
tgattcttct ctgtgattct tgtatggcca ttgtgtataa tagaaacgtt tgcattgcaac  240
```


cacggctctg gctgcatggg ctaaagagct aaacatgaac agagaacaca tctggagtat 300
cctgtancat acttggggaa cacacgtctc tacagtgaat ttgctgtata cgtgtctgtc 360
agttcgtnta taattttaatt taacatactt gggcag 396

<210> 8050
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-A5
<400> 8050

tggccctaaa ccccatcatt gacggatttc acctcactcg agtccttatg aacggcggca 60
gcagcctgaa cctgctctat caggatacag tgcgaaaaat gggatatgat ccctcgagga 120
tcaaaccag caaaaccacc tttaaaggcg tcatcccagg tgtagaggcc cattgcacag 180
gctcaatcac actggaagtg gtctttgtat caccggataa cttccgaagc gaagagttaa 240
tcttcgacat cgtcccattt cgaagtgggt atcatgcact gtcggacgg acaacatttg 300
caaaattcaa tgcagtgccg cattacgct acctcaagct caagatgccg ggacctcgcg 360
gggtcataac agtaaatgga aacatagaat gtcgctctg tacagaagag cacactg 417

<210> 8051
<211> 451
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-A7
<400> 8051

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ccttttggtt cggcgccggg cttgggatat tgccatattt cttttcaact ttcgaaaatc 120
aacttgtcct catctttggg gtatgatccc gtctgaatgc tttcctctc ttttgtgat 180
tggcctttaa ggtgagggtc tcaatgaaca acggctctc cttaatgtct acgccatctt 240
cttcactctc acaataaatg tcttcatgcc atggctcgcc ttggccgtca gtcgcttctt 300
gattgttggt gctgccaatg tgctcgacac catgatcttg gctgtgaccg tcttgacttt 360
gggtctcgtc gcgatcgaag gcttggccat ggccctcggg gtggaaggct ttggcactac 420

cctcatagat gatgttctcc atgaaatcgt t

451

<210> 8052
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-A9

<400> 8052

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ggcatgttca tgtatatagg tatcacgtgt ttacagttg gacaaactca aggccggcat 120
ccaacaacta ttaagtccaa cacaattcga cggtatcca gcatgcatct agagtattaa 180
gttcataaga acagagtaac acattaggta agatgacatg atgtagaggg ataaactcaa 240
gcaatatgat ataaacccca tctttttatc ctcaatggca acaatacaat acgtgtcggt 300
tccctttctg tctactgggat caagcaccgc aagattgaac ccaaagctaa gctcttctcc 360
tattgcaaga aagatcaatc tagtaggcca aaccagacta ataattcgaa gagacttgca 420
aagataacca atcatg 436

<210> 8053
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B1

<400> 8053

taattccaag cctggtggaa cagaaaaaag gccaacctta gcccaaattg gaaaggcccc 60
ttaacaacca acaaattcct aacgggaatt gaaacggcaa gccatgcaac cgaacaacga 120
accaagccaa aaccaaggga caaaagccgt ctttgaagaa tttaagccta accccgggac 180
caagggtcct ccccttctc cgttcaactt tcaaaattcc ttccccaacc ttggtttccc 240
tcctttttcc ccaacttttt tc 262

<210> 8054
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B10

<400> 8054

gggtgattcc caaagcatgt acatatggtg aaccattatg tgacgaagtc agagcatgat 60
ttattttattg attgtcttcc ttatgagtgg cggtcgggga cgagcgatgg tattttgcta 120
caaatctacc cccctaggag catgcgtgta gtactttggt tcgataacta atatattttt 180
gtaataagta tgtgagttct ttatgaataa tgttgagtcc atggattata cgcactctca 240
cccttccacc attgcaagcc tctctagtag cacacaactt tcgtcggtag cataaaccga 300
ccatttgccct tcttcaaaac agccaccata cctacct 337

<210> 8055

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B11

<400> 8055

cgggatgacg ttacgagatt ctcaggaaat gaactacgat agcaagctcc aaaacatgag 60
ctggttctgc taaaacatg tgaaacacgt tgtcccagac aagcatggcc atgtagtagt 120
catataatta aacactaccg agttcaggtg gggaaccatc atcgaggata tcgaagtctt 180
tacgcaagtc catggattag atccaagca tagacttctt ttccttgaac aagtcaatca 240
gtggcttagt gtgctaggga cacatataga atgaagggtg caagtctcca gactacagaa 300
tacttcgcac gtgcgcatga ctgatttggg atgattccaa aggaaacaaa acaatctttc 360
tcaaattcac ggcggcaact ttcaccaa atgcagtgtat aagaggaagt cactcctttc 420
atcaaacaaa 430

<210> 8056

<211> 226

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-B12

<400> 8056

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 ggggttggcg acgtggcggg gcgctgattg ggtcgggagt gaggtggang gcggcggccg 120
 gacatgttca agcgggggaa aggatgaaac gtccccgcga tgcgganggg gaatttgatc 180
 tannggtttt gccccgaaaa ctccgngnga aggggaacta atatat 226

<210> 8057
 <211> 329
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-B2

<400> 8057

cggggccaaa ggaaataga agcanacgtt ggtaccgga ggtccggatg cgcaatcaac 60
 ggcgggattt gtgttgcgta cctcacacct catagtctg gttgttgctt ggatgtggat 120
 gttttgtggg atgtgtgacc cctgaccgct gatcgccgct gctctgcttg ctaacgacaa 180
 gttcatgtag ctgacctgtc caacatcact gttggccggc gtacaaaatc cttgcgtctg 240
 tgtggtgccc ctgggactga cctgcatcag ttaactagtg tacatttgca gaatctctct 300
 gttttcttgc agaaaaaaaa taannngnt 329

<210> 8058
 <211> 289
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B3

<400> 8058

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 tccaagggtgc aaagataaaa aacttaaggt tgaaggaata aaaaatcctc ctgggttcga 180
 ataacaggga aattcattaa ccacaaaaac catcaaaact ataatctgaa acattatcct 240
 aaataaacia ttttctgaat aatgaataaa ttctaaacca tggggctat 289

<210> 8059
 <211> 369

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B4

<400> 8059

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 tgacaaccct cggcaaattc acctaacaaa agaacctcgg gttgaaaaat acattgttgc 120
 tgcttcgctg tggaacctta gttcatgtga cctgtgtgaa ataccagga attctgtgta 180
 ccattccggg ttctctcaaa ggctgaattc aactggatt ggtagaaact actataaaag 240
 aggtcccgac ggcaatgaca tcaccagaca aatgttcctc acgtcaggat tgaattccga 300
 cacaacattt ggaaagacga gatggagctg atacatttcg gaaatgttaa gcctacagaa 360
 gaaaacgac 369

<210> 8060
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B7

<400> 8060

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 tagtttcctt gcaattttta gcttttctac agtagtatgt tgcctcccaa aggagttatt 180
 gggtttcccc caaagaggaa ggatgatgta gaacaacaac aaagtatttc cttcggttag 240
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 cacaaacaag atacaaactt gcaccaaca tggcaagagg gttgtcaagc cccttgcctt 360
 gctaattaca agattaaaag aaaattatag agataaatag tggtaaaata gcacgggaaa 420
 taaaaagagt aaattgtgta caagaattta ttaat 455

<210> 8061
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B9

<400> 8061

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acgccgacct tgagagcgac gcggttgggct ggcagtacat ctccgggtct ctgcctgatg 180

gccgtgagct cgaccgcatt gacaacccgc agtttgaagg ctacaagttc gaccatacgc 240

gggagtagct ccggcgatgg ctgccggagc tggcgaggct accaacggaa tggatacacc 300

acccctggga tgcacccgag tctgtgctgc aggctgcagg aattgagcta ggttccaatt 360

accctctccc cattgttgag ctagatgaag ccaaat 396

<210> 8062

<211> 312

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-C1

<400> 8062

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agggaaccaa tttttgtaat ggggttagta gggtagagaga ggagacatgg ataattggta 120

ccgctgctgc ttactttggg tctgcggttg ttggaggtagg ttgagactgc tgttattagt 180

ctgttgctcg agctgtagag aactctttgc tgctgctgtt acttccttct gatgtttttt 240

cgttttgtta ttatatagcc ggatggattc gcacgggaat ttaacgcgaa gaaaagatat 300

gcagttttat ct 312

<210> 8063

<211> 409

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-C10

<400> 8063

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ggccgagttg cacagcaaca tcttganaca cgagctgttt gcagattatg tctctatttg 120

gcctaacana ttccagaaca naactaatgg aattacaccc cgcagatggc tccgtttttg 180
 caaccctgag ctgagtgaag tagtcacaaa atggctaaaa acagatcagt ggacaagcaa 240
 ccttgatctt ctcaacgggtc ttccggaatt cgcagatgat gaaaaactac atgctgagt 300
 ggcagcagcc aagctggcca gcanaaagcg cttagccaaa catgtgttgg atgtgactgg 360
 tgttacaatt gattcanata gccttttcga tatacaaatt aaacgcaat 409

<210> 8064
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C11

<400> 8064

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 ttcaagttcg gctacaacgc cgccactggg cagtacgagg acttgatggc tgctgggtatc 180
 atcgacccca ctaaggtggt gagatgttgc ctggagcacg ccgcgtcagt ggccaagacc 240
 ttcttgacgt cggacgtggt ggtggtcgag atcaaggagc ccgaggccgc gcgcctcgcc 300
 aaccccatgg acaactccgg cttcggatac tgatgagcga cacggccgag tttctctgga 360
 tgacgtgggt taacttttgg taccatggac caagttttga gagattgatt gatgatgatg 420
 atgt 424

<210> 8065
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-C12

<400> 8065

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 cccaaaagga 70

<210> 8066

<211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-C2

 <400> 8066

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 tttttctttc ttcttgcgct ttttcttttt gatttttttt gtgttttcag ctaatgtggt 180
 cagaattttt cataaaaaact gagattttca gattttttctt cagaaatttc atagaatttt 240
 agaatttcac aaattgttcg cttattttaa aaaagtgttc atcttttcaa attttgttca 300
 caaactaaaa aatgttcggt ttaagaaata tgttcccgtt ttcataattt gttcacaaat 360
 tgctcaggaa tttcataaaa tattcccact tttgaaagtt gttcaaaaca aaattctgaa 420
 aaatg 425

<210> 8067
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-039-Q1-E1-C3

 <400> 8067

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 aacaaaccaa tttaaaactt gcaaatttta acaagccggt taaacttgat ttggggccct 180
 tggaaaaatt tggtagcccc ggaaccggca atttgaatta acttacaagg tagggccggc 240
 cggccggtgg tgtcattcaa aaccggcttt ccgcttggtg caccaaattc ttgcagggaa 300
 agtgtaggtc caaaattttg caaaggaatt ggtgaactgg gttcttttat tagaaaccac 360
 acttcagcg 369

<210> 8068
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C4

<400> 8068

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acatcagcgg gatgagctcc tacatgtaca accacacggt ggagtcgtgg atataatctg 120
actcacgacg aacacgagcc cgctaattcc atttttcacc aacctatattt acacgtgcag 180
atttttaaca gcctgtttta cttgattttg gtcccgtgga ataattttgt agctcctgaa 240
gcggcgagtt gaatttactt accatgtagg gtcggccggt ctgttggtgc agtcgacatc 300
tgcttttcgc ttgttgacgc taattcttgc acgtgaatgt gaagttctac agtttgacga 360
ggagttgtgt acttggattc ttttaattga aaagcacagc ttcagcgaat aca 413

<210> 8069

<211> 352

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C5

<400> 8069

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acgacccctt gctccggccg tggcagatcc cgtaccctgc caccgccatg cccatcgccg 120
ccaccgccac gcacatgctc cagtactgat cgatccggtg atgattgggt caataattga 180
ggatcccttg taggagcgga gctgagctgt ggctggcaag aggaagaaga tctaccctac 240
ttggctgctg ccttgaggat tattaccaag gcgtagtttg ctgctatatg ttgtgtttat 300
tattatgttt cagtaagtgt ccgccgtcgt cgtcctcgtc ctccatgtcc ta 352

<210> 8070

<211> 220

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C9

<400> 8070

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ccgagggcac cactcgggtg cgacaagttc acctcctctt aggcgtgttcg tcggccgttt 120

ctcggatcta gccgtacggg tgcgtttatg gccgtgtaaa cctcgtcgaa tcgtaccga 180
 tgtcactgta ccgcccgaca tgttacaggt gcctgcctca 220

<210> 8071
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-D1
 <400> 8071

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 caaaaattct tcaaattaaa ttaactaaca acctaacaat aattgtaaaa ggacaaaggg 120
 gaaaaggagg aaaattaaaa ggaaaaacca aggattttga caaacattca ttaagggggtt 180
 aacacgtttc ccaaaaataa aaggaggaaa aatcctggac tgaccaacat cagtccaaaa 240
 attttgtttc agtttaggtc caaatTTTTT gccaatTAAG ggTTTact tttccctaaa 300
 aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaccAAAAA aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaacCG gccccccaaa a 381

<210> 8072
 <211> 68
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-D10
 <400> 8072

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 aatggagc 68

<210> 8073
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-D11
 <400> 8073

gaatggacca tctgatgaag cttctcatgg caatcaaact ttacattgca tantgccact 60
 gggcgctgcc aagcaagagg agctgtctgc taggaccccc ttggttcttc aaccaatgca 120
 ttaacggata acctaaagaa gaattcaatt atgagaatac tgccccgctt tttcccactg 180
 ttgattgatc tgaatcgctg cgaacatagc tctggagatg ttcaacacgc gctgtacaaa 240
 atcttcaaat catcaatagg ccctatgata gaagtataat ggcacattcc cgtcctgcta 300
 ggcgcacaat tttgtgacaa cattctgaca tcctgaatga gcccttcctt caggatcctg 360
 gagttcaagt gcatattact agtccagata tcatgtataa agaggaaaat ac 412

<210> 8074
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-D2
 <400> 8074

tccacgggga cgaaggcaca actcatccta aaggctcttc aaggcccgtg atagagttgc 60
 cagatattcg aggtgacaca gattgttttg ctggatctgc tggagttggc atgcctcata 120
 aactcaaaca agtacaaggc gatgattcat ggatgtttga ggaaatttct gtatcaccta 180
 gatcattatg tttgaatgag gaaggtgaaa gtgtcgtctt tgagcatagg gaatctggat 240
 cttgtgttga gcacagggaa tctggatctc ctgttgatga ttacttacc catgcaattg 300
 gttcgtgcga agagagtaaa atttctccat atttccttga tcttgatcca agaacttcag 360
 ggaagaaatg tcaagaagta gaccattgga atcataaacg acatcatgac tgtcctgccg 420
 gagactgtaa tgaccagaat gaattt 446

<210> 8075
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-D3
 <400> 8075

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 aaaggtaaag gaacctagga aagtcaaat aagggtgcgt ttttggccac ccaatcgtga 120

tcaaatgatac aaaatgataa aggagggttta ggtggggtttt tgggcaactt tggaaggggtg 180
 ttgggctgca aactaacga agccttttcg gtcccctcgg taaacctttg agtatcaaac 240
 gaagtcaaaa tggcacgaaa cttgacaggc ggtctaccgg tagtgaacca aggccgcatg 300
 gcaagtctcg gtcaaatccg aaaatgttta acaccgcac acgaaaaang aggtagaaag 360
 ggacaccggg tgacatanga acgccggatt gcaaaacgga caacagggaa aatgcttgga 420
 tgcataaac gaacatg 437

<210> 8076
 <211> 166
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-D9

<400> 8076
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 cgggtgggaat aataagaagc cgtgaagcct ccgccggaac aaaaccgggc acgggaagca 120
 agaacatgcg acacgaccgg cgctgccttg ggccgctgga gcaaga 166

<210> 8077
 <211> 242
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-E11
 <400> 8077

tagcttcaga ctgatccag agatacctag gttggctatc gctatgtaga gtggttacat 60
 gctgagagtg gacattatgt gtcagtctct cgtgatgttc tggaatgaca cttctgtcgt 120
 gtcacagagt tctgcgtctt atatatcctc caagtgagcc tttagctgat catagttcag 180
 gtgatgttga tcttgaacga gctagagaca ctggaaggtc gccaaagagta agaagggata 240
 ga 242

<210> 8078
 <211> 451
 <212> DNA

<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-F1

<400> 8080

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gctgcagcag cagcagaccc ggaacaacac cgcaaaataa aaaataaagc aaaaataang 120
agcaaaccac aggaacaac aaaaccaaatt attatatata aaaaaaggct ccgcaattta 180
cagatagtaa tttgcaatac ttccttcctt gcttccattt ttgtatggcc tctcaaagct 240
tgcttttgtt caagctggaa ttgtatcatt tctcgaaaac ttgtcacctt gaacatgaaa 300
ctattggttt gcacagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagcgg ccg 353

<210> 8081

<211> 348

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-F10

<400> 8081

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aatgtgaatt ggaagaaccc ttgatcttga ttcattgaca gaaagtttcg aacatgcatg 120
cagtagttaa agtgtagag atggctctga agaagcaaaa gcctctactg attgttgctg 180
aagatctaga aagtgaggca ttgggcactc tgattatcaa caagctccgt gcaggcatta 240
aggtctgtgc tgtaaagct cctggttttg gggaaaacaa gaaagcaaatt ttacaggacc 300
ttgctaacct tactggcgga gaagtcataa ctgaagagct tgggatga 348

<210> 8082

<211> 284

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-F12

<400> 8082

cgggacagcg ctagaatacc tgcagcacga gaatttcatt gaatgagcag tcagttagtc 60
aaggcaatgc cgagtcctaa ttttacaaaa gtccaagaag acaattgtac ttcgtcaaca 120

tgtgccatTT gcctggaaga ctacagtgtt ggtgaaaaga taagggtgct gccttgtcgt 180
 cacaagttcc atgtcgcttg cgtggacctg tggctcacat catggaggac attctgccct 240
 gtatacaagc gagatgcaaa tgctggaatg tcaaatttcc ctcc 284

<210> 8083
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F3
 <400> 8083

catcattggg taataataat gaaccaaacg gaacaaggtc aagttaaattg gaacaaaggg 60
 ttccaaaaaa ttggaccgct gtagatagag ggggaagggtg atggaaattgt tggatgaagat 120
 ggcggagggtg ttggtgaaga tcgtggtgat gatgatggcc cccggtggca ctccggcgcc 180
 accggaagct agggggagag agccccctt cttcttcttc ttcttcttct tccttgacct 240
 tctccctaga tgggagaagg gtttccgctc cgggtccatg gtctccacgg ccgtgggagg 300
 ggcgagaacc cctcctgaga ttgatctgt cactctgtct ctctctgttt ctgcgttctc 360
 tctattctgc cctt 374

<210> 8084
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F9
 <400> 8084

acgggcgtag catagtgtcg gggagccggc gcaacaagcg caagcgctgc caatagtgcc 60
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 cttgggctgc gccaacgtct acgacaactg actcctctaa gccgtggctt atgggggtgtg 180
 tgttgttata agccacagcg tgtgtggtca ggctcgtcac gcgcgacgga ttcacgcggg 240
 acgtacggga cgcactgatg cattcggact cgtcggacac gactgatgcg cgcaggacat 300
 gcgggggtgca acggaaacgt ggcgtgtgtg catgtgtggt gtgcgtgtgt gcgcatgtat 360
 gtgtgtagcg tagtggccac gct 383

<210> 8085
 <211> 53
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-G1

<400> 8085

attcncgagt cgacgggaca cggtctgaat acctgcagca cgagaaattc atg 53

<210> 8086
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-G11

<400> 8086

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 cccagtcgcc cgccggaaca atccgtgttc ttggcccat ttaatttcaa aaataaaaat 120
 tagtaccage agtgatctgt attaggttgt agtagcacta gtaatagaag tagtagtagc 180
 gtcagtttta gcaggtgtgt attttggatt ggtgacacat tggttttggg gtgccggcga 240
 taagcgggtgg agatggatga acaagcaaga gatccatgtc tagtagtagt agttggtttg 300
 ttagaagcaa taagtgggtc tctttcggag gcgagagaga tgtttttagct gttttagca 360
 agcgctagag atgataatgt tggagtgaaa tgaggctaata ctcaaa 406

<210> 8087
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-G2

<400> 8087

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 tgacaccaca caacagatat gctgctgtca gcagtcctct ctaaataagac actgcaatta 120
 tcgtataagt acatcattgc tgctgtcagc agtgctctct aaatagacac tgcaattatc 180

atgtacatca ttgctgctgc aatgaaccat taagaattat ttaaaatcta gcoctaccatc 240
 tgcgttgtcg tcaacagagg gttgaggcgg agttacaaaa tctgtatgag aaaccgaggg 300
 attgtccgag tcagcgacat ctttgttata ttcagagctg tcagaagcag ctgagatgac 360
 gtcacctgat tctgaatgtg ttctgtcnac atatgcttca agtaaggagc tctcggccac 420
 gtcagcatcg ccgttatgcc g 441

<210> 8088
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-G4
 <400> 8088

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 gcaaacaagg cctaggaaat caagccactc tggggagcag cgacaacctt tcagtggcaa 120
 tgggttttga cattgccttt cacgatcatc ccccgatta gtagtgattg agccagcgga 180
 tgtgctggta gcaacacatc attctgcctt tgggtttgtc agttcggtac ccattatata 240
 tatgtttttt tctctagcca ttgctattct ttttagtggt gcgccaacg aaagcattgg 300
 agtggtgcca aatttttgcc atgtgccctc ttgtacagta tatcactgct caatcatttc 360
 gacttaaaat gaaagcggtg atgggtatag atttgtgttc tagacccatg gaagatgcta 420
 tgggaacct 429

<210> 8089
 <211> 175
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-H1
 <400> 8089

aaaatgccta ttcaagtatc cttttaagct attcaaaaat tcagtaaaaa tttcgattaa 60
 aaatatgtca tcgatatata atatcaaaaa cgctacagag ctccactca ctttcttgta 120
 aatacaggct tctccaaaag tccgtataaa accaaaaggc tttgattaca ctatc 175

<210> 8090

<211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-H12
 <400> 8090

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 atgtctacgt accatgctac tcagagcttc cagcccaaga aacttcagtt cagtgaatgc 120
 caacttctgt tcaatgtgca tctgtggttg ttctgctgcg atatgctgaa ccaccttgta 180
 tatcacgcta gccggagtc tccgtgtgac cagtccagga accctgccat ttttactttg 240
 tcgatgcaga gttacgttcc tgtactaacc taaaactctt caccatgttc ctagttaaat 300
 accttgttta agtttgctat atacccttta tgtaagattt gatgagctaa aacaa 355

<210> 8091
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-H2
 <400> 8091

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 tgaccatgag gatgggcatt cagcggcgtt tgatggatga aataccagag attgctgcag 120
 ttgaagctat cacggacaag gacgctgggc ttaagctgaa cgaagagaat gttgagaagg 180
 tactcgatga gatcaggcca tacctcaccg gtgcaggagg cggtaatctc aggtttgtcg 240
 cgatcaacaa attcttcgtg aaagtccaac tcaagggccc tgcagcaggt gtggcggccc 300
 tccgagttgc tatagcacag aagctcaaag agaagatccc atccatcgca gctgtccggc 360
 tactgccgta aacttcaact gcaaaacatt gctgtgaata tctggttatc caggagaatg 420
 ctatgaatgc gctaactgat 440

<210> 8092
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-H3

<400> 8092

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 tcggggcccg aaacaaaacc caaccggccc ttccaacttc aacaacggcc ggcaatcaca 120
 atgggtttttt ggaattggtt gccgggcaag aaggccaacc aggaccatga ggcaggctcg 180
 tcatcaacct caccagaaac cgcgggccacc tactcaacct cactgatggc attctcaatc 240
 tcccacctgc agctcggccc cgcttccggt cgtacgttaa ggtggaggta tgccgatggt 300
 actggcagac ctgcaccccg ttgtcgtggt ctgttgccaa gcccgccccg cgagccgcgt 360
 gtgcgtgtgc cgagcccac 379

<210> 8093

<211> 395

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-H8

<400> 8093

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 aagcaaaatc acgagtaaaa ctcaaataag agatctaacc agaaagttca acttaagaac 120
 tctggttcgc aaaaagaatc aaatcaaacy aagcaagaat actcaagcgg tgagagaaac 180
 aagcttcggtt tattaatctg gactaaggtc aaattttaca gtagcaaaaa cttgtttaag 240
 ttggataaac ggaaagaggg tttcgagacy aaactctagg cgcttgaatc gcctgattcc 300
 gataaatgag cgaaaagtta tactagaacy aaaatcggat cagaaatcac gaanaaaaaa 360
 gcnaaaccag aaaaaaaaaa aaaaagcggc cgctc 395

<210> 8094

<211> 449

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-H9

<400> 8094

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ctgcacgtgc anggggacat gtcggtgttc ttcaactgca ggttcgangg gtaccaggac 120
acgccgtacg tgcacgccaa ccggcagttc ttccgcaact gcgaggtgct gggcaccatc 180
gacttcatct tcggcaactc ggcgggcgtg ttccagaact gcctcatgac ggtgcggaag 240
cccatggaca accagggcaa catggtgacc gcgcacgggc gcacggaccc caacatgccc 300
accggcatcg tgctccaggg gtgcaagatc gtgccggagg acgcgctgtt ccccgtcagg 360
catacgggtgc ctagctacct cggacggccg tggaaggaat actccaagac ggtgatcatg 420
gagagcacca tcggcgacct catcaagcc 449

<210> 8095
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-A10
<400> 8095

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tcacgtgggc aatgccttgg tgacggcaaa atgggtgcat tcgtccggtg acacagattt 120
gctatggccg cagtgacaag gtaggtatca gtttcgagat ctacggtttc aagcatcaga 180
aggtatctaa atagggtgaa ccttgtcaaa gaatggtcac atattatact ctctgaatat 240
catcctactg aaagtaattg aagccttgcc ttcacgatca tcaaattggtt gcatctctaa 300
catagtggag cacaatttta tgataacata gactcaaaaa aggaaaaata gacagagggt 360
ttagaaccct agacgccacc ttctccacct cgctcctcct ccgggtgccc tgcactgctc 420
c 421

<210> 8096
<211> 387
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-A11
<400> 8096

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ggacatcggg gccgcaatgc aatttctcca atcaaaggct ctctgcatga tgccagtctc 120

ccttgccatg gctatctatg acacacaaca ttcacaggac ggccaaccag tgaagcctga 180
 acccaacaac actgcctagt atagtaacag cagctgcaac acccatcccc gcagctgcta 240
 gtaggcatgc atgaacctgt tatcaaagt ttaagataaa aactgctggt tctgatccac 300
 taactacaag gagggctgga aagacctaaa ggatcctctc cactggaagt tgtatcgacg 360
 gtatatgatg tcacctacta acccttt 387

<210> 8097
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-A12
 <400> 8097

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 cgctcgggcc cgccgtccgc gagggggagc acgtcttcgg cgtcgcgcac atcttcgcct 180
 ctttcaacga caccttcac catgtcacgg atctgtccgg gagggagacg ctcggtccgca 240
 tcaccggtgg catgaaggtc aaagctgac gtgatggatc atcccccttat gcagctatgc 300
 ttgcatctca ggatgttgct gtaagatgta aggagcttgg aattactgct ctgcacatta 360
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<210> 8098
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-A2
 <400> 8098

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 gtggagatga ggagctggac accctcatca agggcaccat cgctggtggt ggtgtcatcc 180
 ctcatatcca caagtccttc atcaacaaga cctccaagga gtgaatgaaa tgcaataacg 240
 ggtagttggt gtgcgttgta tcttcgtgat cccctgttat gttgtgctat ctgttatgtg 300

ttgctattat cacaacctga ataggttgtc tgaatttgtg atggggctag ctttcggtaa 360
cttg 364

<210> 8099
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A4

<400> 8099

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agatgtcatc ggctgttgtg ttccttcaac tttcatggct gaagtaacct tttgttcagt 120
aatctgcgta attgttttct gctttttttt tgagcttgta tcatgaagag ttgtagaata 180
ataattagcc gcagatgggtt aagagaaaac aaagtgccgg tattcaacag gtgctgatgc 240
tgaacttttg gttaaacaga gctcagtgtg ctatgttagc aagggtgtat gaaaaccag 300
catccttttt ttggatccca gtggtctctg gttatgtagg gtaaaaatgc tatcaatagc 360
agaattctgg cttggtgt 378

<210> 8100
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A7

<400> 8100

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tgggatattg ccatatttcc tttcaacttt cgcaaataca cttgtcttca tctttggtgt 120
atgatcccggt ctgaatgctt tcttccactt ttgtgcattg gtctttaagg tgaggatcatc 180
aatgaacaac ggctcctcct taatgtctac gccatcttct tcatcttcac aataaatgtc 240
ttcatgccat ggctcgcctt ggtcgtcaat cacttcttga ttgttgtggg tgccaatgtg 300
ctcgacacca tgatcttggc tgtgatcgcc ttgacttttg gtc 343

<210> 8101
<211> 367
<212> DNA

ggcgggtattc cccttcatcg ccgtgcacga ggagtaccct taggctccgg cggcgatcaa 180
 agagacggaa tccatggcgg ggttgcagcc gctcgcgccg cctgctcgcg acgtccggac 240
 caactggctg ctggcgcgct ccgtgatgca ggtgctcttc tcgaagcacg gcgagctcag 300
 acgctcgcg aacctgggtg cctccctctg cggcgccagg attccctgca gcccgcggc 360
 gctggacctc cactccggca gccatagga 389

<210> 8104
 <211> 292
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-B3
 <400> 8104

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 ctgctctgtg ttatcctctg aaatgtcaat tgattcatcc ttggatcctc atcattgtac 180
 aattattatt ttctcttttg cccttcgtca caatagcact ctgagtatct gtaactgaag 240
 gatttcagcg gatgtgtagt acatgagagg tctctgtgta aattggttct gt 292

<210> 8105
 <211> 292
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-B4
 <400> 8105

agaacaaaga gaggccgctg gtgctccgca acaaggctccc gaggtggcac gagcagctgc 60
 agtgctggtg cctcaacttc cgtggccgcg tgaccatcgc ctcggtgaag aacttccagc 120
 tgatcgcggc gccgagcctg ttggaaccgc agccctctct cactctcggc tagaggaaga 180
 agaagacaca agacacgaga ttttccggtc ggcgcacgaa cgccgccacg ggcgcacgaa 240
 cgcccgaatc tttttcctct ttgcaatgtc tacatggtgc tcaactcagt ac 292

<210> 8106
 <211> 385
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B5

<400> 8106

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gggagcccat caagtagcct tggagttggt gctgttggtc gtaccagagg gatcgtgcaa 180

agttgaccac ctattcgtct ttgtcgtcct tgggtgatgg gaggggtggc ggtagtgccg 240

gactctttgc gtcaagatga tgttcattt gcgcgccctt gttctggggc agaataatg 300

ccttcagaa caggaaatct cccctcacca ggttctcttg ggggtggcgat ccgagaaaagg 360

aattgttgga agtggatgat tgggc 385

<210> 8107

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B6

<400> 8107

ccgggtcgcac ggggtacaaa atttgaggca cgttccatag atttcaggcc atatattagt 60

ccaatctata aagctatatt gggccgcttg gcgaatcaag atcaagatca ggaagttaaa 120

gagtgtgcca tatcttgcat gagccttggt atcgctactt ttgggtgatg tctccagagt 180

gaattaccgt catgccttcc catacttggt gataggatgg gcaatgaaat aacacgactt 240

acagctgtca aggcatttgc ggtgattgag aattcacctc ttcggattga tctgtcatgt 300

gtcctggacc atgttgtttc tgagctcaca gctttccttc gaaaggccaa cagagccctc 360

aggcaggcaa cattggg * 377

<210> 8108

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C1

<400> 8108

gggtcgacgg ggatgaggat ggtgacttcg cggagggcgg agaggaaatc tcggaaggag 60
aggagtatga caacccaag gccagtgacg ccaagaagaa acaaataaggc gagggtgagg 120
agaatggcga ggatgatgag gaagaacaag aggagcagga cgggtggagga ggtgacgacg 180
atgatgatga tgacgacgat gatgacaatg aggacgacga cgatgatgac gacgatgtcg 240
ctgctgaaga cgatgaggat ggagtagaag aagaggatga cgaccaggac aacgacgatg 300
atgaggaaga cgatgacgaa gactcgctcc agccccgaa gaagaagaag aagtgaagcc 360
cttcgacgcg gctgctttag gtcacatgca atgagatgtg cctgttcttc actgtgtt 418

<210> 8109
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C10

<400> 8109

gtagcgctct acattcaagg gtcgacgggc aatggaggat gtaggtgtga tatgtcaagt 60
agtggacaga taagccaacc actggatgtg gttttgaggg atttttgcag tggggtttgt 120
acggtgctat gccgcgctgg gtttgggatt tgaaataaaa cgaagggaga tgtgccacgc 180
tcttaaattgc cagtcttctg ctctaattct gctaaattta tgcattctgt tacattctgc 240
agccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 360
gggcccccaa aaggttccaa ccttaat 387

<210> 8110
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C11

<400> 8110

attccagggt cgacgggtac ctgataccca agggggcgac ggtgaacttc atggtggccg 60
agatgagcag ggacgagcgg gagtgggaga agccaacgga gttcgtgccg gagcggttcc 120
tgccaggcgg cgcgggcgaa gctgtggatg tgaccggcaa ccgggagatc aagatgatgc 180

cgttcggcgt gggccggagg atctgcgccg ggctgggcat cgccatgctc cacctggagt 240
 acttcgtggc caacatgggt agggagttcg agtggcagga ggtcgccggc gaggaggtgg 300
 acttcgccga gaagaacgag ttcaccgtcg tcatgaagaa gccgctgcgc ccacgcctcg 360
 tgccccgaa ggctgagac aaagtccatc tccatcagcc agtaatcaaa tccgaacaat 420
 agtcactc 429

<210> 8111
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-C12
 <400> 8111

tagccgtcgt aaattcaagg gtcgacggga gattctaaat atattttcaa atagacatgt 60
 cacgtgggca aggccttggg catggtgata tgtgtgtatt cgtccggtga ctcagtataa 120
 cgatagcctc tgtgcacagt gatgtttcag tttctacatt gatggtttca agcataagaa 180
 ggtttcataa ttaggtgagc cttgtccagg actggtcaca tattatgctt tctgagtttc 240
 atgctactga aagtaattga agctttgcct tcgcatgta agaatggttg catgctgtta 300
 aatagtggag cacatttttt tgataacata gactcaaaaa aggaaaaata gacagagggg 360
 ttagaacct agacgccacc ttctccacct cgctcctcct ccgggtgccc tgcattgctc 420
 ctccggggcg tt 432

<210> 8112
 <211> 293
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-C2
 <400> 8112

cagctaaacc caagctccag tgcctacaag gtcacatcg acttggtcgt cgaaaaatac 60
 ttcagataga atgaactacc agctaactat gagtggtaaa ggaccaaagg ggaaaggagg 120
 aaaaatagaa ggaagaacgc aggattttga ccaacaatca gtaaagggtt gacacgtgtc 180
 gcacaaatat aaggatgaaa aatctgggac tgaccaacaa tcagtccaca gattttgttt 240

tcagtttagg tcgaattttt tgcccaataa cgggttgaca catgtcgctg aaa 293

<210> 8113
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C3

<400> 8113

gggtcgaggc gggatactaa tcgagaggtc tcgagttcaa atctctagct gatagaaaaa 60
ttggtgtgtt cctgttgatt gggcctgata ggcaggaaag cccatctcag cctcattaat 120
cttgcatttc gtcgttggcc taccatctgt agccccagtc ccaacgccag gacgatggcg 180
gccgcgggac ctcttatctg ccgcattctg cggcagactg gcgggggttc gcacagggtta 240
ctctttctct gggccggccc acacagaagc agccggtggt gaaaaaaaaa aacgcataaa 300
aagatacatg ttttgaaaac aaactgcatt cgaacttcta aaaaagttaa gatctgccgt 360
ggattatgtt cttatagtgt ttgctgctta atattgggaa agaacgtt 408

<210> 8114
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C4

<400> 8114

gggccagaat aacgggtcga cggcgcagga ttgacaaaat gggctattga gctcttacca 60
tttgatataa cttacaaacc tcggcgagct ataaagtcac aagttttggc tgactttgtc 120
gctgaatgga ccgaagccga actccctaaa gaggtagggc catactccaa ttggattatg 180
cacttcgacg gctctaaaat gttagccaga ttgggggctg gcgtcgtatt gacgtccccg 240
accggggaca cagtccaata cgtacttcag ataattgaca cggactccaa caatgcagcc 300
gaatacgagg cccttttaca tgggtctccgg atggcaatct ccatgggcat tcaacgccta 360
gaggtgcgcg gggattcaaa cctcgcaata tcccaaataa acggagactt tgacgcaaaa 420
gattcgaaaa tggcagcata tcgcaacgct gtcctaaaca tg 462

<210> 8115

<211> 315
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-C7

 <400> 8115

 cccgggtcga cgggctatgg taatagttaa tttgattctg gtgaaaaaca caaactttgc 60
 gctcacgaga aaaaattcaa taaatctaag aaatgtgctt ttgcgtagat tatttttgct 120
 gtagatcaat agacaaatct cctaatactt cctatttttg taggattttt ggagttccag 180
 aagtattcga aagttacagc ttgctacaga ctgttctgtt tttgacagat tctgcctttc 240
 gtgtgttggt tgcttatttt gatgcatcta tggctagtat gtaagggtat gaaccataga 300
 gaacttgga tacag 315

<210> 8116
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-D11

 <400> 8116

 cacgggactc cctaatttgg taggattttt agagttccag aagtttgcac taattacaga 60
 ttgctacaga ttgttctgtt tttgacaaat tctgttttac gtgtgttggt tgcttatttt 120
 gatgaatcta tggctagtaa aatagtttat aatacataga gaagttggaa tacagtaggt 180
 ttaacaccaa tataaataaa gaaggagttc attacagtac cttaagtagt tctttgtttt 240
 ctttctctaa cggagctcac aagatttcta ttgagttttt gttgtgaagt tttcaagttt 300
 tgggtgaatt ctttttggtg gattatgaaa caagagtggt caagagccta agcttgggga 360
 tgcccatggc accccaaga taatccaaag acaccaaaaa gtcaaagctt ggggatgccc 420
 cggaaggcat cc 432

<210> 8117
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-D3

<400> 8117

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tcctgaaggt cgatgattct ccttgtatgt tcttgtatgg atgcctgctt tccttctgtc 120

ttctgtttgc aatgctttgc tcgtcgtgaa gacgaacagt acaaataacg tgttaaaacg 180

tgaagatgaa atcgaataga gggcaccggc gggaattgat ccaccgccgg tggttgaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaagaaa aaaaaagacg ggaaaaaaga ggagaaaaaa aaaaaaaaag 360

gggggcccc aaagggttct aagttttatt tcccggtaa ggaaa 405

<210> 8118

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-D4

<400> 8118

ccgtcggatc caaggcccg caccagtcgc cgggcagcaa gaagatcgtg ggcgtgttct 60

accaggcccg cgagtacgcc gacaagaacc ccaacttcgt cggctgtgtt gagggggccc 120

tcggcatacg cgactggctc gagtccaagg ggcatacta cattgtcacc gacgacaagg 180

aggggttgaa cagcgagctg gagaagcaca ttgaagacat gcatgttctg ataaccaccc 240

cattccaccc agcctatgtt actgcagaga ggatcaagaa ggcaaagaac ctcgagctgc 300

ttctcacagc tgggattggc tcagaccata ttgatttgcc agctgtctgt gctgcaggct 360

tgacagtggc tgaggttact gggagtaaca ctgtctctgt ggcagaagat gagctcatgc 420

gcatcttgat t 431

<210> 8119

<211> 335

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-D5

<400> 8119

cggggaagat cagcccccg cgggaggaga cccccgccgc gtcggtagat gagggaggaa 60

ggcagtggcg cagtcattggt ttagatatga aagttttgga caccgagcgg aactcagtgg 120
agagcttata tatgaaaact agcgagagag agagagagag agagagagaa gacgatattt 180
atgcaattag aagagaacta tagacattgt ttttccccta agctcaataa ggtctgtgtc 240
ctttgtggac tgcgtttctt ctttgtagag acagaacata atataatacc gaggattgca 300
gtcaaatgga aattaatttc aggtttggaa cttga 335

<210> 8120
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-D9

<400> 8120

acggggcgac atgagcatcc gagtggcagt gcttcgcact ttgagcagta gggataacttg 60
atcatagga aagggaaggg agatgagttc gtgcttgcatt gatttttagg gaaagagcgt 120
gtgtattgta cttctatgtg catgaagtgt tttgtttggg ccaagcccaa ataataaaaa 180
taaaacacta tctctaaaac tattcaaacc cttttgcatt tattatcttc tgcaaaaaaa 240
ggggaaacaa acaatcgacg agaggggcga gctc 274

<210> 8121
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E1

<400> 8121

ggtccacggc gatcttgtgg ggcaattagc agacctgggc gaagcagatt acacagccgt 60
caacagagct ctgtgtgcaa tgtgccagta caatgccagc ggcagctacg tgggtctcgga 120
cctgtcgaac gatccagaca tcaggaaggc taccatggag gacatagcgc atcaaaccg 180
ccagcaatgg tcagctcacc gtccgacgtg atcaacctgt cgtactcagt acaaccagt 240
gttttccatt tgggggttcg tgaag 265

<210> 8122
<211> 454
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-040-Q1-E1-E10

<400> 8122

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ggcgaagctg atcacgaagc ggctgtacgc ggaggaggcg gagggtgaaga actgggtgtg 120
gcactcggag ggggacctga tgctcaacga cgccgtcttc gccgacagcg gcggcccaaa 180
ccagaggaag ttcgagaagg atgacctcat cccgccaag cgggacgt acgtcaccag 240
gctcacgcgc ttcgcgggt gcttgccgtg caagcccgcc aagccctgct aaaccttggc 300
ggccccgccg gccggccgga gccgatccct tccgaatctt caattctata gctttgttca 360
attcttttac tcaaagattc gtgtatgtaa tactaggaca tttgagtagt ctaccgggtt 420
cagatcagaa ggccctgtag gttgttcttg tacg 454

<210> 8123

<211> 181

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-040-Q1-E1-E3

<400> 8123

acggctacat gaaagtctga tcgattcgaa gcagggtgag ttcagttcag ctagaggaag 60
acgaacgcgt ttcgatcagt ccgatctcct gctcctttta catgatgatt actattatct 120
taatcttagt gcatgtgtat gtaatatgca ccatgaattg gtagtgcaaa aaaaagaaaa 180
g 181

<210> 8124

<211> 355

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-040-Q1-E1-E4

<400> 8124

tcccttcaat tatatttact ttacatataa gttttgtctt aagtcaaact tcgtaaagtt 60
tgatcacatt agaggaaaaa atatcaatat ttatactatc aatcaatatc attgcatcac 120

ggaattaatt ttcattattgt atatcttttc tattatagat gttgatatat ctttaataata 180
aaactgggtca aaattttatta aatttgactt aaaacaaatt tatatgcgga gtaaaagaga 240
aacaggggga ggaagcggcg ttctgtctcc aaggcgcac tattcaaaaa cttctgaatt 300
tttgtgtggt gaaagatgct ttgggtccct gccaaattta tottgtttgg acatt 355

<210> 8125
<211> 447
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-E6
<400> 8125

cgggggagggc gacggtgcac ttgtgacctc aaccaggcga gcactcctcc tctcgccgt 60
cgtcgtctcc gatccaccgc cgcttccgca gccatggtga acgttccgaa gaccaagaag 120
acctactgca agaacaagga gtgcaagaag cacacctc acaaggttac ccagtacaag 180
aaaggcaagg acagcctttc tgctcagggg aagcgctggt atgaccgcaa gcagtctgga 240
tatggtggcc agacaaagcc tgttttccac aagaaggcca agacaacaaa gaagattgtg 300
ctgaagctgc agtgccagag ctgcaagcat tactcacagc gtgccatcaa gaggtgcaag 360
cactttgaaa tcggtggaga caagaagggc aagggaacat ctctcttcta atctgatgat 420
aacaacgtta agtttaaaaa gttgtgc 447

<210> 8126
<211> 104
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-E7
<400> 8126

gctatgacac actgaccctt cccatatttg catacatagc tttaaaatct gaaatatttt 60
acaacatcag gatgttcttt gattcggtaa cattcttctc gaat 104

<210> 8127
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E9

<400> 8127

acggggctgg ttaaagagga agccgaggca ccacttttca acggtgaacc cacccacagc 60
tcattctgca taaccaaca gaccaagcaa cacaaatccg attcattccc ctcccaagct 120
ccaatcccg cgaattctcaa gcgtggctgt catcatcatc acccagcatg atccgtttca 180
tcctgttgca gaatcggcag gggaagacgc ggctggccaa gtactacgtc ccgctcgagg 240
actcagagaa gcacaagggt gagtatgagg tgcacgggct ggctgtcaac agggacccca 300
agttcactaa ctctgttgag ttccgtacgc acaaagttat ctacaggaga tatgcaagac 360
tatttttctc aatatgtgta gatatcacgg ataaagattt ggtata 406

<210> 8128

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F10

<400> 8128

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attaaggatt atattgatgg gttgcctttt actactacac atgatgggtt tgatgaatat 120
aatatgtatg tgcttgctgc tctacttgc aattattatg agagaggaac tatactctcca 180
cctctctatg tttccaatac gataaaattg caagaaactg tttatactat gcattggcct 240
ttactaagtg tgcataaatt gttcttttat gacatgccga tgcataaggaa gagagttaga 300
ctctgttggt acatgatata tgttacgttg tgctcccccac taaattacaa atcactgtta 360
attaaaattg gctttgatat accttggaa cccgggt 396

<210> 8129

<211> 296

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F12

<400> 8129

cgggcaggtt gcatagctga ttggcaggat agtgaagtgg ctgaagcccg gtgggcatat 60

tttcatcagg gagtcttgct tccaccagtc tggggattcc aagaggaaag tgaacccgac 120
gcactaccg gagccaaggt tttacaccaa ggtgtttaag gaatgccact cctatgacca 180
acatgggaat tcctttgagc tttctctggt aacttccaag tgcattggag cttacgtgaa 240
gagcaagaag atacagaacc agatatgttg gccatgggag aaagtcaagt gcacag 296

<210> 8130
<211> 282
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F3

<400> 8130

attgtctggc tattcatgca attctatatg agatgcactg gacgttgcag ctgctcgagt 60
aatgatattg tttgagacca tgcgttgcaa ggtattgaga gactatagtt acagcgagtt 120
gcggcagaca ggggagagag aactgcatcc gattggtttg ttaggacata gataaggaca 180
tcatcagtat atgctctgaa gattaggtaa cttagcacag actttgcagt ctacttatat 240
caggttgaaa ccacgtcttc ctgagattca ccgccagtc tt 282

<210> 8131
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F4

<400> 8131

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ttggattggt tagtttcttc acgcaaactt tgccggggcc tggcctcaaa cacactactc 120
aaattcagat ttcattcatc aagtggttcc gccacaaaat cgctgaaccg caattcaaatt 180
gttgcattgct tgatgagccc actctgcaca attagctgga gatgcgtgcg tgtgtgcagc 240
ttacaagttg gaaacacagt cacagaccaa agctctggtg tttccccacc tgctgggtca 300
gctcagacac aatttggtca ctggactaga gggaaacaga caatgcattg agctcacaca 360
aaccaaaact ttggcacaag ttcattgatc actg 394

<210> 8132

<211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-040-Q1-E1-G10

 <400> 8132

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 ggatagtcga attggtttna acaccttccc gttgtgctca atgnncaacc cttcctttgg 120
 gtattgtntn ntagtaaaca ntnntttgca tgctgcccag ttttggtgct nncgcaaacg 180
 atagggaact agttgcactt gaacacagct caattctagg gttnttctag tgcattgggt 240
 tccttnngat aatacgttgg ctttttgctt tcgacatgta tttcgacagc aatttcaagt 300
 acac 304

<210> 8133
 <211> 141
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G11

 <400> 8133

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 tttggaataa ggagtggaaa gatcctaacc ttggggatgg ccattgccct caactggaac 120
 ttctcccgt tcacgaactc t 141

<210> 8134
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G12

 <400> 8134

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 tattcctgct tagtacaagt gaaggctaga aaaagactgg gaagcgacca actagagagc 120
 gacaacagac atgaacatgc attaaaatta accaactg agtgcaagca tgagtaggat 180
 ataatccacc atgaacataa atatcgcgga ggctacgttg attttgtttc aactacatgt 240

gtgaacatgt gccaaagtcaa gtcactcgaa tcattcaaag gaggatacca ccctatcata 300
ccacatcaca actatTTTTaa tagcatgttg gcacgcaagg taaaccatta taaactccta 360
gcaaattaag catgacatta gcaactataa tctctaattg tcattgcaaa catgtttcat 420
tcataatagg ctgaatcagg aacgatgaac taa 453

<210> 8135
<211> 375
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-040-Q1-E1-G3
<400> 8135

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agaccaaggc cagggaagg ctcatcgcca aggaggctgc gcagaggatg aactaagcct 120
agccttatat gtgagagcat atgccatgta gtttcccttt cagtgtgtcc tgattttgac 180
gaggaactcg aaccctttta gcagcagtgt ggaatcgat tgtggttttc tgattctctg 240
ttcccttctc cagacttatg caaagatcag atgaggttta cccatgtttg gattctatat 300
agctttatgt cttttgtcga gtcaaaaaaa aaataaaaaa naaaaaaaaa aaaaaaaaaa 360
aaaagcggcc gctct 375

<210> 8136
<211> 207
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-G5
<400> 8136

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agaagaagat gaagatgaag aagaagaaga tgaagaataa gaagaagaag aagatgaaga 120
tgacgaagaa gaagaggaag attaagatta ggatgtataa gaagatgaag aagaagaata 180
tgaagcataa tatgacgatg aagatga 207

<210> 8137

<211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G6

 <400> 8137

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 caggggagaat agttccgtta agggttcctt tccctgggta agcatgccct aaagtgcattg 120
 tccggactgc gataggaaac acaggaaaaa acatctgggg gcagatatgg aaaataaata 180
 aaaatcatct ttttttcgcc gaccaaata tcccttaaga acgctagctt ttggcttcac 240
 ccagtctgag gtacacatcc ggctgaccgc gcagtaacaa tcgcagaggt gctccctta 300
 tgccctagcc gaattaacag gaacgtaggg cataaatata agagccaggc aaccagctt 360
 ggccaaaact taagtcatat cgatgcatat aatggcgaaa aaaggtagat g 411

<210> 8138
 <211> 257
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G7

 <400> 8138

 ccggtcgacg ggccaccgaa ctctccagc ctccacctgc gattgttcaa ctageccctct 60
 ccatgggctc ctgttcaacc accctccac gggctactgt tcatccagct ctccaccggc 120
 aactgttcaa cccgccctcc accggtact gttcaacctt ccctgcacaa tctcttcgtg 180
 aataccatt tctctcctta gggttggttt ctctcaatat ccgatacaca cacacataca 240
 cagatagaga gatagac 257

<210> 8139
 <211> 228
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G8

 <400> 8139

 cgggcaaggg tattcatcaa aacaaatccg aagcggtttc attcgatttg ttgtgtactg 60

gatggtggaa aacttactcc acagcatgca tttcaacaag atttccagta gcacgtgtta 120
 aggagtcgct ccagcgtgat actgtggatg tcttcccgtg cacaatctct tcgtgaaaca 180
 ctagatctcc tttgagcttt ctctggctgc ttcgacgtgc attggagc 228

<210> 8140
 <211> 283
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H1

<400> 8140

gttaattatt ttaagccagt gaaacttact aatagtagca ggccactagt acttacgttc 60
 tgaggccata tatataggta acaagtagtg gcagaggcca gtattttgcc aacgccatat 120
 gtacaaatgt gttccgtttt ggctccacat gatttcccgt atgttcatat gaaatttacc 180
 gcagtgttct tttaaacatc agtggttgata cttgaaaaaa aacaaaaaaa aaaaaaagaa 240
 aaaaacagcc gacctaagaa gaatccaaca ccgacgtccc cat 283

<210> 8141
 <211> 334
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-040-Q1-E1-H12

<400> 8141

tccacggggg aagaagaang aggcggaggg atggggcgcg ggaagatcga aatcaagagg 60
 atcgaaaacc agagcaaccg ccaggtgacc ttctcaaacc gcaagaacgg gatcctcaag 120
 aaggccaggg aaatcaccgt gctctgcgac gccgaggtcg gcgtcgtcgt cttctccagc 180
 gccggcaagc tctacgactt ctgtccccc aggacctcgc tatcaagaat cttggagaag 240
 taccagacca actccgggaa gatactgtgg gatgagaaac acaagagcct cagtgcggag 300
 attgatcgaa tcangaaaga gaatgataac atgc 334

<210> 8142
 <211> 361
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H2

<400> 8142

tccacggcga ggttgagaag cagattggca ggatagtga gttggtgaag cccggtgggc 60
atattttcat cagggagtcc tgcttcacc agtctgggga ttccaagagg aaagtgaacc 120
cgacgcacta ccgggagcca aggttttaca ccaaggtgtt taaggaatgc cactcctatg 180
accaagatgg gaattccttt gagctttctc tggtaacttc caagtgcatt ggagcttatg 240
tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc aagtgcacag 300
aagacaaagg ctttcagaga ttcctggaca atgtgcagta caaatccact ggaatcctgc 360
g 361

<210> 8143

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H3

<400> 8143

attatgacat ttacatagcc attccgagat atattaccat gcaactttcc accgttcggt 60
ttattatgac acgcaccatc attgtcatat tgcttttgca tgatcatgta gttgacatcg 120
tatttgtggc aaagccacct tcataattct tccatacatg tcactcttga ttcattgcat 180
attctggtac accgccggag gcattcatat agagtcatat tttgttctaa gtaacgagtt 240
gtaatattga gttgtaagta aataaaagtt tgatgatctt cagtattaga gcaatgtccc 300
aagtgaggaa aggatgatgg agactattat tccccacaa 340

<210> 8144

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H9

<400> 8144

tagccgtcga gaattctagg gtcgacgggg ttggctcagg atgttatgtg cacagcctgt 60
gagatggctg ttgtgtggat agagaaccag ctccgtgaaa aaaaaacaaa ggagctgata 120

ttgcaatatg ctaaccagct gtgtgagcgt ctaccgagcc ccaatggaga gtcaacagtc 180
 agctgccatg agatgtcaaa gatgccgaat cttgctttca ccatcgcaaa taagactttc 240
 gtgctaacac cagagcagta cgttgtgaaa ctggagcaat cagggcaaac cgtctgcatc 300
 agtgggttca tggcattcga cataccgccc ccacgtggtc ctctctggat tctcggggat 360
 gtcttcatgg gcacttacca caccgtgttc gacttcggca aagacagaat cgggttcgca 420
 gaatcagctt gaggagtcca gagcactatg aaatt 455

<210> 8145
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A11

<400> 8145

gggtcgacgg gacgcgcaag aggacatact gcaagatggg gcttgattac tttcctggga 60
 acaccgagga tgtcagacgg ttgccacgca aacacgtcga tgttcgcccg caggaaagca 120
 acgagcgcgc tttcctatct agggtcgaga gtggcactga tggatgaagg accaccagt 180
 ccgtctctct tggcggacac cttcttgggc tctgggtggag ctgccattgt cttcttacac 240
 ttgccgggtg agcttgatgg tgcgtctctg acggtagcgc agcactccga agaggtgcgc 300
 ttgccggagt gggcatcaga actcttgccg gacttggcct tcttcttccc cccggaagct 360
 tcaacggcaa gtgacttgcg atctgtttcg ggtgctgctt cccggg 406

<210> 8146
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A2

<400> 8146

gtcgacgggc tgcaggctgg tgtacgggat gatacgccgc tttgtctcgg ccacgggggtg 60
 gccggtcagc cgcattcagc gctagtagtg taggctctag tgcctcctcc tcgaattgag 120
 gtaacaacct gcgctttggg taactcttgg ttgggcgctt gagtctgtat tgctcgggtg 180
 ccaggacctc agtccatcta tccagttagca gatcttgatc agcttgaagt tgttgttgct 240

ttttcttttag gcatttttgca gtggctataa gccggcgctt gaagcgctgc tgctcgacgg 300
gaccttcagg cacgacgaat tcttcgtccc caaggctcac ctcattcttg gagagggcca 360
tgtaattaac atcctccgag tctcatacat tgctgtttt tc 402

<210> 8147
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-A3
<400> 8147

gacgaaacc aactatctac ataattaggt actgaacatt aggagtagag atagatctga 60
gtcgcgccac cgcacctttc tgctcgacg ccggtgactc tcacgtactg gcggcgccgt 120
gacgctggaa agtttagcga actccacaca tccaaacaga cgttgatcca tcgacccgaa 180
ccaagaatca acaccgagag ctggcgaga tgatgtcact gaagccctct gcatccgccg 240
ccgccgaagg ctgcaggatt gcctcaacc ctcgctccgc gctgacggcg aggtcaacac 300
cattgcaagt aattaatatt ttgggaaact tcgttagaat ttggtctgtg tattcgttgt 360
atagccactt gtccagtact ggggattc 388

<210> 8148
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-A7
<400> 8148

gcgggtcgac gggggtcact agatagtatc attgtacctt ctctcttttt ctctcatttt 60
tttgggcctt ctctttttta tttccttctt cttttttcct cacttgggac aatgctctag 120
aaaatgatga tcattcacatt tctattttatt tacaactcaa tgattacaac tcgatactag 180
aacaagtat gactctatat gaatgcctcc ggtggtgtac cgagatatgc aatgaaccaa 240
gagtgacatg tatgaaagga ttatgaatgg tggctttgcc acaaatacta tgtcaactac 300
atgatcatgc aaagaaatat gacaatgatg aacgtgtcat gataaatgga acggtggaaa 360
gttgcattgc aatatatctc ggaatggcta tgggaatgcc ataataggta agtaagggtg 420

ctgttt

426

<210> 8149
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B1

<400> 8149

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tgatcctgac ggtgaagcgc gacaacatct gcagcttcat ctcgagagacc aaccccgggc 120
acgtgcggtc gtgggagacc aaggacagcc agctgacgat ggtggcggac gacctgaagc 180
cgcgggcggt gctgacgtgc ccggagaaga agttgatcca gcaggtggtg ttcgccagct 240
acgggaaccc gctggggatc tgcggcaact acacggtggg caaatgccac acgccaagg 300
ccaaggagat tgtggagaag gcgtgcgtgg ggaagaggag ctgcgtgctg gccgtgtcgc 360
acgaggtgta cggcggggac ctcaactgcc cg 392

<210> 8150
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B11

<400> 8150

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gcaccgccgc tgcgggatcg cctgtcccaa gcagctgcc tgtaccttgc ccatctgctt 120
caggtgcccc aactgcaccg ggcacagccc tgcctccatg aagcccccca gtttgcgggc 180
gggcgacggc gatgcctccg ggggcgaggc taaaagggcc gcatttgata tgatgagtgg 240
tttgtccgac gcggcggagc cggcggcgac aatggacagc acgacgcagg acagaaggac 300
ggcgggtggc cgggtggaac ccatctatct ctctctcttc cacggcgccg gagcaagacc 360
gaactctgta tcttcgtggg aacgaagctg aggtgaccgg g 401

<210> 8151
<211> 420

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B5

 <400> 8151

 gggtcgacgg gtcccgtgt tcaggctact ggcctccga caacatcgac accgaggacc 60
 tcgatggctc cggcgaaaca ggagaagatg agtggcagat tctctgaatg aaaggggaagt 120
 ttaacttcag ttgttcggtt aaaccttcac atgaccactc attgggttaa tgtcccgctg 180
 tgtgaagtaa agacttcaaa aacctcgtgt gaaatccagg gtttccagtt ctacggaaca 240
 agcgggtgtg ctgcttggtc cgcgtagctg cgagtcgga aaaggtagga accgttacgc 300
 tgatcatcgg atcggcacca agttgggtcg atgggaaatt cctctgtacc ataccgtacg 360
 cgctgttgtg ggtgactgca aaatgtatct attgattggt taaaaacttt cccttggtat 420

<210> 8152
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B8

 <400> 8152

ggtctagaac tcgcgggtcg acgggtatct gaagctagag tcttattcac cacatgatat 60
 gtgttttgcc tggagcatct tgtatgattt gagtctttga ttttagttt accacaatca 120
 tccttgctgt acacccttt tggagagaca cacatgaatc ggaatttatt agaatactct 180
 atgtgcttga cttatatctt ttgagctaga taatttttct ctagtgcttc acttatatct 240
 ttttagagca cgatgggtgt ttattataga aatcattgat ttctcatgct tcacttatat 300
 tactttgaga gtctttttaga acagcatggt aatttgcttt ggctacaaaa ttagtcttaa 360
 tatgataggc atccaagatg ggtataataa aaactatcat aaaaagtgca atgaatac 418

<210> 8153
 <211> 415
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B9

 <400> 8153

cgggtcgacg ggaaacacca ttatctatgg tttaaacctt cttttctcac aacccaacga 60
 cgaggacccc ttgaatcatg aagccgcggc cgctctccgg gacaacccgc agaagttcca 120
 gagaaacggt cagatggcaa tgcggggagg ctatgtcgat aacacccatt tcccaagggtg 180
 caagtaaggc ggccggggcg gctgctatg tgcttgcttc tggcttgccg ccacctaccc 240
 taccctagcc ctgaatgcc aaccattgca caatctgaag aaatgcgggc ggcataccca 300
 ggaaatgtat ctatcatact tgtttgctgc aagaagatgt gactgctatt gtgcttgctt 360
 ggtggatggt ctggaattgt cgtgtaacat gaagaagaaa tggggtgacg ttatg 415

<210> 8154
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C11
 <400> 8154

ctgcggggtc gatgggatgc tctagggtga atcggaataa atttttgtaa tggggtagt 60
 aggggtgagag aggagacatg gataattggt accgctgctg cttactttgg gtctgcgggtt 120
 gttggagggtg gttgagactg ctggtattag tctgttgctc gagctgtaga gaactctttg 180
 ctgctgctgt tacttccttc tgatgtttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatttaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaagggggc cccccaagg gttcaagctt aatttccctt 360
 tcaaggcaat ttaaaacccc ttcaaagggt cccccaat 399

<210> 8155
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C4
 <400> 8155

tcatgggtcg atgggatacc tcatagtga tctactaaa cctattgatc attaaacttag 60
 attttcccaa gattttggct gctattccga attactctat tattccgaag ccaatgaaaa 120
 gtaagtagaa cctacaaaaa tggggttttc tattgatgcc ttgaataaca tatagcttac 180

ctatagacaa aaaataaaaa aaaaaaagta attatgtttc ggaaccaggc aaaaccagat 240
 tgctgtgcc taggaaggat agctatacta attcgggtata ctcaaaatac accttttgga 300
 caaaattgac aatctcaciaa ggatgaaata tcagtaattt tctatttact ggtcgatccc 360
 atctttttacg gaatcaattc ctttttttga atgtacaaaa attttgggag ttcagcatgt 420
 ctggaaacac ggg 433

<210> 8156
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D1

<400> 8156

gtcgacgggc ataacaaact gacatctgat ggtgccatct cagtgaatga tgcacagaca 60
 gctaccgtca aggccgaaga aagcaacgca aacaaaacta aaggctcctgt ggaggagagc 120
 agttgattta tctcctgcc tttactagtt tggagcagct atgatttgat gctcgtcagg 180
 agttgagaac ggaaaaagat gccgattcga gttcaggcgt gggctgctgc tgcttcagtt 240
 gtgaacatca tagtccttat ttcgctcca cttaggttat agtttcaata tcatagttcc 300
 aaaattcttg ttcgtgggtc cttgcttcg tgttctttct tgttttcttc tctttatctt 360
 tttacttggt ttgtgtcgtg aatgctgtta agtttttagt gcctttctca ctccttttgg 420

<210> 8157
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D10

<400> 8157

ggtctagaac tcgcgggtcg acgggggtgg tcaaagaaac tggatgcatg ttttcattat 60
 ttctggtgtt cgttgtactg ccatgattgc agatgaatag atatgaagtt ttctcgcaaa 120
 aaagaagtaa gaggtttttc aatgttatcg ctgtaacgca agaataagag tcagttcttt 180
 tgctagctcc tagaataaac tgaaacaagt tgtcccttac ccaacttatt ctaaaaatcc 240
 aaccaaattt atcttttttag aagcctacta attaaagact taactagtag gattttaaaa 300

tttatttttg gttaggttcc tagaataaac tgggtagggg tagcttattt tacaagcccg 360
 aaaaggccac aaaaagaata gccctaagg cacgttgctt tgattacaac tataacataa 420
 ttcaagtaat acactttgca aag 443

<210> 8158
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D11
 <400> 8158

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 ccaaacgagt atttcacgga aagccgacaa ggaattccgt taataaccga ccgttttgat 120
 tctttagaac aactcgatga atttagtaga tccttttagg aggccctcaa tgaccataga 180
 tcgaacctat cctattttta cagtgcgatg gctggctatt cacggactag ctgtacctac 240
 tgtttttttc ttgggatcaa tatcagcaat gcagttcatc caacgataaa ccaaattcca 300
 actatagaac tatgacacaa tcaaaccgga atgaacaaaa tgttgaattg aatcgtagca 360
 gtctatactg gggtttatta ctcatTTTTG tacttgctgt tttattttcc aattacttct 420
 tcaattgaga aaaagaaaga gact 444

<210> 8159
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D3
 <400> 8159

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 aattctacaa tgctttgatg aagggtgatg ctgatcaaaa ccttttcgag aagggttaagg 120
 agctagcaaa gcgcatggat gaggatgggt gcagactagg catctcaaca attgattcgc 180
 tggatgaagct ctatgtgggc gctggagagg tggataaagc tgaatctata ctgcacaagc 240
 tgtctaaaag taacaagatg aagcctcagt acagctcata cctcatgttg cttgatactt 300
 attcaaagaa aggggacatc cacaattcag agaaggtggt tgaccagttg cggcagatgg 360

gttataatgg gagggtagg cagtaccagt tgctgctaaa tgcatatgtg caatcaaaga 420
cacccgttt 429

<210> 8160
<211> 77
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D8

<400> 8160

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agttttcacg tggtgga 77

<210> 8161
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E1

<400> 8161

ggtcgatggg gatcacgata atgagtotta ctatgcctcc agttgatgag aaaaagaagg 60
tagttgaaga tggtgacaag gatcgaagat acgcaattga tgcattcatt gttcgtatta 120
tgaagagccg gaaagtctta ggccaccaga cactagtaat ggagtgtgtg gagcaacttg 180
gtcgcattgt caagcccgac ttcaaagcaa ttaagaagcg cattgaggat cttataacca 240
gggattacct ggagaggagc aaggagaacc cgaacgtcta ccgatacttg gcttgatcat 300
cggttctcca tgctgggttc ggtaacatct ggcgtgtatg cctaccaagc tactgctatt 360
taaggatgct atattttgtg ccatggcaca ccac 394

<210> 8162
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E11

<400> 8162

gtgaatcgga atagttgtat cgcgacctga atgaatgaaa taaacgaaat aacgctcttg 60

ttcaaccgtc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaagggg ccgcccacaa ggatcaaacc taacttaccg gggaaggaaa attaaaaacc 240
 cttcaaaagg gccacacaaa ttaaattaaa gggccgtcgt ttaaaaaagt ccgaacggga 300
 aaaacccggg ggtaacacaa ttaaaccccc ttgaaaaaaa accccttttc ccaagggggg 360
 gaaaaaccaa aaaggcccca aacaattccc cttccaaaaa tttgccaaac cgaaaaggga 420
 a 421

<210> 8163
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-E4
 <400> 8163

gtcgatgggc tgcggtatat cgactcgtct aatccggtgg tctccgcggt ccatttggtg 60
 gccgaaatgg ccaaaaccac tcccgctgcc gcgtcgggct cgccggcggc taaacgccgg 120
 cagccgactt tgactttgac ccccggtggg ccctgggtga ctcccctgag tcaatgacag 180
 gtggggccca gccctgttaa ttaaacagga ttagttttta ttaaatttta attaaaataa 240
 tcaccctgac atgcgggacc cactgtcagg tttgaccag acctgttcag ttgaccactg 300
 acgtcacact gacgtcaggc tgacgcagta attgattttc tggattttaa ttaaatcagg 360
 aaattccaga atattattta aacttcaaaa attcataact tttaat 406

<210> 8164
 <211> 338
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-F1
 <400> 8164

ggggccaggg gaagatgaag cttatgggga cgaccgcgct gattacagga aatctgaacc 60
 cactacctac atcaatgctc ctttggttaag ggttcttgcc tacttcgttg gcaacccaaa 120
 cccaggccat atcagacact gagcataagc actttgccat gtagacagag aagagtgaca 180

gaagctataa atacgtacac aggaagcaaa taggtttgtg attggatggc actacatggt 240
cataggagtg gattgcagag catgtgttct accaataatg acagcttatc tttcatgatt 300
tttcttttgt ttgggtttgc actgaatttt gttttgtg 338

<210> 8165
<211> 450
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-F12
<400> 8165

ggtcctaggt tcccgggtcg acgggggaac gatgagatca tggctagggg aacttttgcc 60
aacattcgta ttgtgaacaa gttcttgaag ggagagggtg gcccccaaac catccatgta 120
ccatcagggg agaagcttgc tgtttttgat gctgctatga gatacaagaa cgaagggcat 180
gacactatca tcctggctgg tgctgagtat ggcagtggaa gctcaaggga ttgggctgcg 240
aagggtccaa tgcttcaggg agtgaaggct gtgatagcca agagttttga gaggattcac 300
cgtagcaatc tcgctggaat gggcatcgtc cctctatgct tcaaagctgg ggaggatgcc 360
gacactcttg gcttaacagg ccatgagcgc tacaccatcc agcttccgac tgatgtgaat 420
gaaatcaagc ctggccaaga tgttacggtc 450

<210> 8166
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-F2
<400> 8166

tcatgggtcg acgggttcct tgaaaggaaa tgcttggatg agggctctga ttgcgacact 60
atltcaagga tatgccagac gtacgacttg gacaagggtg atgtcctgaa gtacagggat 120
ctggagtggc ctagctcagc ttctcgact acctagggat tctttgcca ccgatgtctg 180
tacggtaaaa caactctact ggatgataac tgctggaggg tgatcaggct ggatcttttt 240
tgcttgggac atggacattt aaccggcatg gcggatcatg cggtgcccgc attaactctgc 300
cgctagctta gaaagctgag aaacgaagag gacctctgaa accgtagcaa ccccatatgg 360

tgacccccgt tgctctgtac ccagagtgtgta aatacagttt ggtg

404

<210> 8167
<211> 141
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G1

<400> 8167

cgggcattca aaactcgcaa tatcaaacat aaatggagac ttgatgccca atgatccgaa 60
aatggcggcc tatctcaatg ccgtccttaa aatgtcagct cggttcgtgg ggctggataa 120
ggttggaccc cttagagggg g 141

<210> 8168
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G11

<400> 8168

gggtcgatgg gattcccaaa agtgaatcgt agtattcgaa taaaattgga ggacagcaac 60
caggttcatg ggcagcagct ctgggagcac aacaacaatg tactgggcta ggaacgtcag 120
ccggaagtgc agccgccgat gcacggcggc aatggatttt tccaccccct tgatgctgct 180
ggtgaacgca cacttcacat aggggtaccct cctgagtcca tgagtaactc atgcatgaca 240
actttcatgc ccccggtggt gccttgattg aagactgcga ataaagtgcg acgaataagt 300
atatacgtgg caccgggccg gccgcataata tgcattgata ctacttcgag tgatggatta 360
ttccagtcaa gatcctcaat tattttg 387

<210> 8169
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G4

<400> 8169

gtcgatgggc ttcccagaaa tgagtcgtat tagcgtcagg ttggcgggga ctaaagctgg 60

tagactgttt gaatggaagg ctctgtgctg caacaaaacc ttgccctagt agctatatgc 120
aatgcttagc actgaactgc tgtgacaatg ttatgttacc gtaacatgtg tgggctatgt 180
ctgcccattg tgttgtgcta ctactgtaaa ccaattgcgt ggttgcgtta gtttgccttg 240
accattgctt gcatgcagct acaagttgct aatgaatacc ctactctaac ctccctttgt 300
gagcgtggtg caggacattc tgccgataaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 360
agaaaaaaga gaaaaaaaac ccgaagaaaa aagga 395

<210> 8170
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-G9
<400> 8170

ctcgcgggtc gacgggaggc gtgaagtttg ctcatagtcg gttttctcaa cggcgggtccc 60
acatgaaagt gaaaatgcta ggcaacacgc cttccctaag ctatgtgtcg tgccggacgg 120
gccgtggagt actcccaatt cccgggctg tgggggggag tgcgacgcga acgcggcaag 180
ccttttcctt ttactagcaa tgtgctcgtg tgttgcggcg gatccaaagt agtagaatag 240
taatacttgt tcacaaactt gaaagaaatc actcttgttt tgatatactc ctaatatatt 300
actccctcta ttctaaaaa aaatgtcttt ttagagatct caaatggact atcacatacg 360
gtttatatgg acatatattg aagtgtggat tcactca 397

<210> 8171
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-H1
<400> 8171

attctagggc cgacgggatg ttcttaaaaa taagggtgaa tcttctagta agaaaaatgt 60
ggatctcaaa tcaataagtg ttcattccaa ttgtctctct atcattaagg aaccttttgc 120
tacaaatgaa tttctcaatt tcttgccctag gagtttaatc attgctaaaa agaaagaaac 180
tcctaaaatt tataagtgtc ctgttgaaga atttaatgcc aaagatggca ctacttagat 240

ctgttctcgc ttttatgcct agctaggggc gttaaagtat agcgctagtt gggaggcaac 300
ccaattttat ttttgtttct tgctttttgc ttctgttttag taataaatat ttcactctacc 360
ttctgttttag atgtgggttt atgtcctaata taatgtttgt gccca 404

<210> 8172
<211> 133
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-H12

<400> 8172

gggatggggc gcggaagat cgaaatccag aggattgaga accagagcat cacgatgtga 60
acttctccaa acgcattaac gggatcctca ttaaggcaag ggagatcaat cgtgcacggc 120
gacactgaag tcg 133

<210> 8173
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-H2

<400> 8173

gtcgacgggc tcatcaagcc gccggtcgtg tcggcaaat acgcatcacc accaccaccc 60
cagttccaag gatattaagc atggcatcat cgaaacatcg acgaggagcg accaattaag 120
gtttaacaca acatcgctg cacatgcaca gatgtacctc attaatgttg aacgtgcatg 180
catgcatgca tgcgtcgaga cttattatta attatgtgta tgtctgtgcg tatgtgogac 240
tgcaaagtgt atgaaggga atagatgtta tctatgatgc cttttttttt gtttttggaa 300
gtgggcaatt ttattaaagc atcaagcaac tttttttttt tggaaatgtg atccataatg 360
ccgtatgttg tgcttttccc tttaggacaa atgtaattct ttcctt 406

<210> 8174
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-H3

<400> 8174

ggtcgacggg ctcaacgaaa taatcaaata caagggattc caagtacctc ctgcggaact 60
cgaagccctt ctcacacac acgccgaaat caaagatgct gctgtcgtat cgatgcaaga 120
tgaacttact ggtgaagttc cagttgcatt cattgtgcgg attgaaggct ctgagatcag 180
cgagagcgag atcaagtagt tcgttgcaaa agaggctggt ttctacaaga ggatccacaa 240
agttttcttc gctgactcgg ttccgaagag tcctgctggc aagatcctca ggaaggacct 300
gagagcaaag cttgctgcag gcatcccaag cagtgaagc acacagtcca aaagctgagt 360
cgcatcttac acacacacac acacacacac acacacctct gtccaaaatc atg 413

<210> 8175

<211> 398

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-041-Q1-E1-H4

<400> 8175

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cgcgacaatg acaggagctg cagcaactac ggcgatggtg ggcacacggc atgtcgcagc 120
gggcgcggag gtccgtgatg acggcgagca ggcgacacat cacagcgctg ggcaaaggcg 180
tggcacggca tggtagcatg gaggcgctgc acggcgatgg cggaggctgc ggcggctcgg 240
tgtgacggcc atgtagcgat gacgagccgt atcaagacta cgggggaaat tgtagccat 300
agtcttgatc ttgcatctgt tangggttgt tagttgcacg cgttgtgttt gttagcagct 360
agctccatgc atggaaaaca gcaccgtcc aaaaccct 398

<210> 8176

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A10

<400> 8176

cgggcattcg ttcaccttga tttcgagtgt gaccacaagc cagagcactc gatcctcagc 60

aagcttccta gcagccagcc ttgattacca tccgaattca ctgtggaaaa cgcaagatgt 120
 tggatatttt gcttgccgtg caggattcgc tacagtactt ggtgtcttgc attgttggcc 180
 atctaaatga gataagcacc agcgttggag actgtataga cttgtttcgc ggagccctct 240
 aaatgtcgtg tttcgagtaa aagtaggtta tttttgcttc ttgaagctgt cattgtttgt 300
 ctgcatgag ggcgtcaatg tggaaatgtt agctacaaaa agaaagcaag cgatttttgt 360
 gtgctcaaaa tcagttttgt gaactaaggt cgcaaggagc gagctagccc acccgggct 419

<210> 8177

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A11

<400> 8177

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 ctctgtggc tctggctggc tctgcaccct catgaacggc acaccatact cgatcgattc 180
 gttatcctct ggggtgcttga ccttcgacct gtacgcccc cactccgcc tgactatcgc 240
 ctcggttgaa tctgtctgct ccatcgccca taggagatac tcgatgaact cggaggactg 300
 caacgtgact gccgccgagg agtacatgta catcacccgt cctcatcgcc gccatctcgc 360
 tctttcgcac acattgccac atggcccgcga ccgtcctcga aatctccac tcattgtcaa 420
 accaactaag gatctccttc aacctagcta ac 452

<210> 8178

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A12

<400> 8178

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 acttatatct tttagagcac ggtgggtggtt ttgttttata gaaattattg atctctcatg 120
 cttcacttat attattttga gagtccttta gaacagcatg gtaatttgct ttggttataa 180

aattagtcct aatatgatag gcatccaaga tggatgtaat aaaaacttcc atataagtac 240
attgaatact aagagaagtt tgatacttga taattgtttg agatatgaag atggtgatat 300
tagagtcatg ctagttgagt agttgtgaat tttagaaata cttgttctaa agtttgtgat 360
tcccgtagca tgcacgtttg gtgaaacggt atgtgatgaa gtcggagcat g 411

<210> 8179
<211> 342
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-A3
<400> 8179

tgcacgaagc gaattcccg tccaagggc cacttcggtt gtacgtgacc gaaggtaatc 60
acaaacgggt gtcgtgcccc gatcagccga ttcgggaaca cgactctgtt gatccgtgct 120
tgtcgcacga tcagtagcag gcacgtacta tatatatgtc gtacgtttgg tcatattgag 180
tgatgaaatg tatttacggt tgtcggtggt cgggtgtcta actaacaaaa tgtatgtttg 240
actctctgaa atgagtaagg agatccattg taatccaaat acagataaag ctattcgggt 300
cgagaaaaaa aaaannaaaa aaaaaaaaaa aaaagcggcc gc 342

<210> 8180
<211> 278
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-042-Q1-E1-A4
<400> 8180

gggtcgaccg gtggactaaa ggataaggag tggaaagaga ctaagctggg ggatgccaaa 60
ggaacccaag attatattaa aggataacca aaagcctaaa ccttggggat cccccggttg 120
gaaccccccc ttctcctcc gtcaaccgga aacttaactt gggccaaaat tttaatccac 180
aaaattaaaa gtggtttaac ttgggcaaca atttcccctg gtccgaattg ccttgcggtg 240
attaaaataa aggttttgca ccttaatttc cattaaaa 278

<210> 8181
<211> 428

<212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-A5

<400> 8181

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gtcaacgagc ggtacagaga atattgcttc gattcattcg tatcccagaa aacatcacac   60
tctctcgctc gagagcaaga acaccagata atacaaccag acaagcagca gtaggagtgt   120
tatctctccg gagagctccg aagctgggta aactgctcgt gtgcctcgcc ttgatctgct   180
cttcgtgcga cctccgcccc ccgccgaacc gaaagggggc cggtcgcccg gccccatagg   240
tgttcgcgga tcagtttccc cgacaaagta tgtgagttct ttattactaa tgtttagtcc   300
atatattata cacactotca accttcacc attgctagcc tctctagtat cgcgcaactt   360
tcgccggtac cgttacacca ctttatacct tcctcanaac agccacaata ctttactact   420
atgcatttt                                     428
  
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<210> 8182
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A7

<400> 8182

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gggtcgacgg gcatggccat agctcctgct gaaacatggg cagtacggaa agcctgctga   60
aattgatccc atgtgacagt gtctactgga tatgtggctg tgaaattctc ccaccatgat   120
gttgcgggtc cttcaagctg atgtgcgggt aatcgcacct tctctgcatc tgtgcatcct   180
gcagtgggtca actccctagc tgtcttgcca agccaatcat ctgcaacaat cggctcagtg   240
ctaccggaga acaccggcgg attcagccta agaaaacggg ttaagtgatc aacagggtgg   300
ggtggtgggtg gggtgtgtgt gttgttcccc tgattctaatt tttggactag caactgcatc   360
aaggcattct gctactggat caactgagtg agctcctggg gggaaaagaa atc         413
  
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<210> 8183
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A8

<400> 8183

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agagatggcg gagegtccgc tgggtggctat catggtgagc tgggtgtgcta ccacctcgcc 120
cacggccgca ggtagcctcc tccccggcat ccattgtcat gaaccaggac tgaatttgag 180
taattagata caattctcag acgctacgat ttggaggaga aactcgagct cgagtccttg 240
gagcaagagg aaggaagaaa tgagacaggg tctcgttaca ttctcgatac cgagtcagac 300
gggagctcat atacggcgct ctaggcgccc gtttggaag tggcgctcac gcagccgca 360
atttgcgcgc gcccaacg 378

<210> 8184

<211> 341

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B1

<400> 8184

caacatgaac ggatacctca gctacctgtc cctcgagtat gacttcgtct cggacacaaa 60
tcctgcttgg gtatcttcat tttggaagca ggaatccttt cctcataaga tggatgacct 120
gtagtattag gaattcatgc cttccagctc taattttttc gcattgttgg tgtatgctgg 180
gagtcacatt attatgctgc tagcaaacag taggattgga agtcttactc tgtagggttag 240
taatatcttt tccactatac cgaggttcag caatttaatt cgtattaagg tcacacaagc 300
agtttggttt tcagatttgt cttgacaaac atatttggtt c 341

<210> 8185

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B10

<400> 8185

ggggatcaac gtacagcagc aactcctggc cgcagcccaa gtccctccgc atgtacgcag 60
ttctaagacc tcatttctct cacttctcaa cacctctccc tcgggaacaa tagccgccgc 120

gggcgcacatc gcagcagcgg tatcctcacc aggagatcga tatgggtgttt gtgtctatcc 180
 aaaaaattag ggcctactcc aagcgggtcc aagtgcggtt caggagatgg agacagggga 240
 ctaccgatta cagggccagg ctccaggtca tcaatcaaga caacagcagg tataacagat 300
 ccaagtatcg gtttgttgta ctatttacta acaaagatgt cactgcccga attgtgtaca 360
 ctaccattgc tggcgatatc gtgatggctg ctgcctattc ccatgagctt c 411

<210> 8186
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B12

<400> 8186

cgggtgcacc atgatggat gagatagtc ttggttgatt tatagaatgc tcattgcact 60
 tcacttatat cttttgagta tggctttata gaatgcttca tatgcttcac ttatatcatt 120
 tgaagtttgg attgcctctt tctcttcaca tagaaaaccg ccatttatag aatgctcttt 180
 tgcttcactt atatttgta gagaatgggc atatcttttg tagaaagaat taaactctct 240
 tgcttcactt atatctatct agagagatga caggaattgg tcattcacat ggtagtcat 300
 aaaatcctac ataaacttgt agatcgctga atatgatatg ttgattcct tgaaatagtt 360
 ttgcgatata aagggtgtga tattagagtc atgctagtgg acgactat 408

<210> 8187
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-B2

<400> 8187

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 aagtggaaaa ccttcgtaaa ccaattgaaa aacccttaag gtaaaaaaat tcttgatttc 120
 aacaatgcta aggcggcggc aaaaaaaaaat ttggagaaag cattttggat ttgcaagcc 180
 caatttgcta ttgtgagagg accggctaga ttttgggatc aaaaaatgcc ctggtacatc 240
 atgtacgctt gtgtgatcat gcacaacatg atcatcgaga atgagcgtgg ccaagagatt 300

tagactactc acagtatgag ctcttgggac atcccgtgcg agtgcgacgg agggctgaag 360
 ggtancccg tttgttgccct cctatcatgc cattcggtgt cccgcaacgc 410

<210> 8188
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-B3
 <400> 8188

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 taaagacatt tacgtgattt tctaaccatt taatgaccgt aattcaaatt taaactacat 120
 ctacatgcaa cgcctaacca taacggtttg aaaaagctta tttttacgta cttgtgcgcg 180
 agttaattcc atgtgcagca aattaaagg gattttcaaa catgttggtc tcaaagcatg 240
 ggcatatgca tacgtatggc tggagtgaca tggcatatta attcaaaaaa aataaaacat 300
 gatcaaaaaa acttgaaacc ttgcttgatt taatgtcatg ccaccaagat gatgtggtaa 360
 agaaattggc atgtttgacg aacgtttggg cacacaacc tcacaaaccg gagca 415

<210> 8189
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-B4
 <400> 8189

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 ctaggccact cgggcttggg catgccgcca ttgagttctc gaataagctg gacgctctta 180
 gttatatgca tgtttagtca ataatccctc cccagttggt gcttggttca tttccattgt 240
 tgagaacttg agattaattg ccattatagg atgtgttcat ggagaagttg catgttgctt 300
 aatctatgga tccacgtcc actatttttc ttcttgcgag aaaagtcag caacaaaaag 360
 gatgtgcgaa ataaattggc atgt 384

<210> 8190
 <211> 363
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B5

<400> 8190

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gggccgacga cgacctctag ggcccacaga gagagtcaca catgagtgtg tgtcatagga 60
caaaaccacc gcggtgtatgt gcccgtgtgt tatgtgatgt ttgaatacc aatgcacaac 120
tttaacgtgg cacatgcttc acaaaccgga aacgcactac accatgatgc gtatctccct 180
cacttcaagc cgggtgggaga gcctcatgtg tacgcacgtg cccgaacttt aatatggaat 240
ctcaccatga tccacaccac acgcatgcc aagatgaatcc accttttggt caaatgcctc 300
tcgttgtcgg tggaaactac aaacctttgc gggctaacga atgggcacgt cgctgatacc 360
gca 363
  
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<210> 8191
 <211> 375
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B6

<400> 8191

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ttgccatcct ctttgcaatc ggctcctcca agaaactttc cccccctcct cctgtagaaa 180
cccagctagc tagctagcta gcgtgcgtac gtctccggcc ccaacattca ttccatgtga 240
gcacattata ttatattgga ggctcctttt tttcttggtt tgattatttt tgtaaactca 300
cattcacata tcacgattgg atcgagtcgg atttctaaaa aaaaaaatg caagtcacac 360
acaccacaca aatga 375
  
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<210> 8192
 <211> 151
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B9

<400> 8192

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ttccaaaacc ctcccttctc ccacttctcc acccctctcc ctcggaaga aaagccgccg 120
ccgcgcgcatc cgcagcagcc gcatccgcag c 151

<210> 8193

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-C10

<400> 8193

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catgtgactc cgggatgcct gttttaagat ttcgcttggt ttgaaagata ttattattta 120
ctgctttag cctacctggg ataccatcat attttgetga ttatggaact acttttatcc 180
tgcttaagtt ctgtattttg cccgatttga aataaaaaaa aaaaaataaa aaacaaaaaa 240
gaaaaggtaa aaaacaaaaa atcgaaaaaa attcaaaaaa aaacaaatac agaaaaaaa 300
aataataaat catcaacaga aaaaatccgg gccacccaaa gggttcaaac cttacttacg 360
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<210> 8194

<211> 410

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-C11

<400> 8194

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cagctgttct ggaaggtgag gcgcaccgtg ctacggctga agcgcgcac tgcgagtttc 120
gggtataaac gctaaagcta taccagaact tcaacgacag tctcgtcact gccaacgcc 180
tctagctatc cacacccgca ggccgcatgg tcttgttctt cgtcttcgca attttttact 240
tgccgcacgg tcggaccact gcatgagggt ggacattttg aagcgtgtcc acaacttctg 300

atatgtctct cgatctcagc taccagtgtt cgagtattag attgtactgt tcgtacacaa 360
 cttgcatagt gtacanaatg acacagtgtataataatgtac ctccatcctt 410

<210> 8195
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-C12
 <400> 8195

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 ggcttccatg tgcacgctct tggcgacacc accaatggct gcatgtcaac tggaccacac 120
 ttcaaccccg ctgggtcatgt gcatggggca cctgaagatg aaatccgcca tgctggtgat 180
 cttggaaatg tgacagctgg agtggatggt gttgctagca tcaatattac tgactgcat 240
 atccccctta ctggacaaaa ttcaattggt ggccgtgctg ttgtcgtcca tggtgacgct 300
 gatgatcttg gcaaggggtg acatgagctg agcaagagca ctggaaacgc tggtgacgct 360
 gttgcttgcg gaatcatcgg gctccagggc taagatgtca tcttcgccga ccaacgtcgt 420
 acagatatgg gaaccttt 438

<210> 8196
 <211> 335
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-C2
 <400> 8196

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 aatacagggc ggccccgccg gcgacgacgc gactgccggg tattgattag ccaggccccg 120
 ttccccggcg gcggatggaa atggatgcat ggatgtccgg tcgattgact gggcgatctc 180
 ttgtttcctg tcgtttaaat ggttctgtac atacaggttt gccgtttgat tcacggttga 240
 caccaccacg tagatcatct agcgttcaga tctctgctta ttgattggtt ctttgtacaa 300
 aatataanan taaaatctgt aaaaaaaagc ggccg 335

<210> 8197
 <211> 333
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-C4

 <400> 8197

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 gaaacccacc acttcggtta acaattaggc ggtaatacca taccagacag aaaaattgag 120
 agtgcattgt gtgctacctt tattttttca tttcgttttg gcgaaaataa tggaatgcgg 180
 taaggggttg gttccaggtc ccggtattag aaattcattg tagggcatca tgcctcatta 240
 attgtgaatt gtgatcactc attttgaata acagaattca ttccaaaaaa aaaaacgaaa 300
 aaagaaaaag acgcaaaaaa aaaggaggaa gag 333

<210> 8198
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-C6

 <400> 8198

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 gtatttggtta ccaactcttt gccagcgagt tcagtgcgta ccgacagcat ttacaggatt 180
 gaccgaagag agatagaagc aagagagttc ggtgcgagt gaaagacggt gaagatttga 240
 gatgttggca acataacatg tggaactggt acttaaagtc cactggagac atttactggt 300
 gtcattatct gatgttagta gttataaact gaatggtggg tagtatgtgt tttcactcat 360
 ggctttatgt ctactgagt gcttgttttg gatttgtaac tggtaatggc atgtttactt 420
 ttgtgactgc tg 432

<210> 8199
 <211> 131
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-C8

<400> 8199

ttcgcggggtc gacgggtggt actatgctgc atgttgacag actttacctt caaatgaaga 60
taatacttgt tttcgccttg tactttttgc cagcatcaat cagttaatta tcagagatac 120
atgttcagct t 131

<210> 8200

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-C9

<400> 8200

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actggtgtgc ccgccatggg aatgagagga tgagggcaga caaggcccg ctcgctaccg 120
gcatggcggc ggcagaggcg gctgatacag cggcacgggc ggccgcataa gaacgagcac 180
gcctcgcccc agagcagaat cgagtgggcc gtgccatggc cggactgcca cccaagaacg 240
agaaggtgga cagcgacggg tcggacagct tcggcaacga gcagatccgg ctaaaccgt 300
actgagtctt cgactggtac ttccgcgaga aagacggcaa tggcgcgtat ccgggaaggg 360
caagggcacc cgtggatgat cttctccgcc atagccgaac atgccaaatt ttggtagtcc 420
aatggaatgt tg 432

<210> 8201

<211> 420

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D1

<400> 8201

gggtcgcccg ggaagttgac cctagtcccc gctgaagaat gtatttagtc atttagtgtc 60
gatgcaaggc agtaaccatt tcttgtcttc atcctcgat tgtatagcat atagaggtag 120
aaggagaga gagagagaga gagagagaga gttacactgt aacaacatac atttgggtag 180
ctatctatca gggcgccggc acgtagtcac actgcatgga tagggacgtg cgttagcat 240
ccaggagaag ttgttttcag cataaaaaata ttcagtctaa caccgatgac cagacaaca 300

atgtccttct cttcttcccc tacttctctt gggcgctcatc atcggcgggt ggcgagcacg 360
gctgagtgat atatggtcac gggctcacgg cctagttgtt gaacttgagg catgggcggg 420

<210> 8202
<211> 434
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-D10

<400> 8202

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gggaacccgc tggggatctg cggcaactac acgtttggca actgccacac gcccaaggcc 120
aaggagattg tggagaaggc gtgcgtgggg aagaggagct gcgctgctggc cgtgtcgcac 180
gaggtgtacg gcggggacct caactgccc ggcaccacgg ccacgctggc cgtgcaggca 240
aagtgttcca agaggcagag gaccgccgag caataagtaa cctaagctca catatgtact 300
gctatgtaga tgatctcatc accttgacct tttgcctttt tcatgcttgt tctttgggat 360
gcgtgcatac gtgttgact caggttggtg attcctgtga attgttctan gagtagatgg 420
agcgctgaga tgag 434

<210> 8203
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D11

<400> 8203

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ctgccattcc aggtaaaagg tggggaatgg gaaattgaca agcggcttct gaagatggga 120
gagatgattg cttctggttc ttgtggagac ttgttccatg ggacttactt tggcgaggat 180
gttgctgtta aagttctaaa agccgagcat ttgaataata atgtttggaa cgagtttaca 240
caagaagtat atattctaag ggaagttcat cataccaatg ttgtgcgatt cattggtgca 300
tgcacaaaac caccaaaatt ttgcataatt acagaataca tgtctggagg aagtctgtat 360

gattatgtgc acaagcagcg taatgtcggt gatctcccaa ctctgctgaa gtttgcattgt 420
gatatatgcc gaaggatgtg ttac 444

<210> 8204
<211> 305
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-D2

<400> 8204

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attagaaata atacagaatt aaaaatttta acttgatata cgaactacaa atttaaagaa 120
ctactaaaga gccgcccggg ttaataaaac tgagaaaatt aactcggaaa gaaatttttt 180
ggaagctccg ttgctgggatt cagacctaac cattcaagga gaagcagtgg gaacgacaga 240
acctatgatt ccatangatt ttattgacaa gaatcctaac acttcattgg gtgggatggc 300
ggaac 305

<210> 8205
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D3

<400> 8205

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tctagcttgg gatttagagg aattatgaag ggccgcccgg gttaagagaa ctgataatat 120
tgactcggaa tgaatttttt ttgcaactcg gttgggggat tcatacttca ccattcaggg 180
agaatcagtc gtatgtatag aagctattat tcaatagggt tttattggga agactccttg 240
tacttcattg tgcaggagac cgggctgcaa cttaagcagt gtcttaattg gttcatgaac 300
cagtgtacgc ggaac 315

<210> 8206
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D5

<400> 8206

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gttggtccaca tattaataag atgttaatct tgtattggaa aatgtcaa atgcatttg 120
aaaatgttaa atgtgtataa aaaatgttga ccatgtat tt aaagaatgtc aatcgtgtat 180
ttcgaaaatg ttaatcatgc tttagaaaat gttaccgtg ttagtaaaa atgttgaaca 240
tttataaata aaatgcta atctgtat tt agaagtgtta acaaggcatt tgaaaaatgc 300
taa atgtgta tagaaaaaat gttggccgtg tttcgaaaa aatgttaatt ttctcttcaa 360
aaatagttaa acatatat tt aaaaaatgt attagatatg taccaaaaac ctacaatgtg 420
taaggaaaa 429

<210> 8207

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D7

<400> 8207

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cttcggaatg ctaaccgagg gtgagagatc cttggtcgag cgcgtagagg aagagctgaa 120
gcatgagctt aaacaggggt acagagaaaa gcttgtggac atcagggagg agatactgag 180
gaagcggaga gccggtgagc tcccaggaga cacggcgctc actctgaagg cgtggtggca 240
agcccacgcc aaatggccgt acccaactga ggaggacaag gcgcggctgg tgcaggagac 300
ggggctgcag ctgaagcaga taaacaactg gttcatcaac cagcgcaagc ggaactggca 360
cagcaaccct acctcgctct cgtcggacaa gagcaagaga aaaaggaaca atgc 414

<210> 8208

<211> 426

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-D8

<400> 8208

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gttagagcta atcttgatat ttgtattagc atgtttgagt tttgcatgta gtctagtcta 120
gtgtggtggt cgtccgacga aggtttcagg tgagcgcgcc aaggaggtga gatgccagga 180
tgccgtgtga ggcggcgagc acggcgagat gccgatggtg ctgcgtgaga agcggcaaga 240
cgtatcagag gctggagccg tgatggactg catcaaattg ggtcgggtga accggccggt 300
cgttctgttt gttggactag ctgttcatgc gtgagttcgt ttagtcctag ctgagagtat 360
cgttgctagt agttgatgca tgcattgata anaaaaaaaa aaaaaaaaaa aaaaaaaaaac 420
cggccg 426

<210> 8209

<211> 403

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-E1

<400> 8209

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cgccgaggct ccccggaagg tcgacggcgg cctactccat gtgcaccggc aaagggagga 120
cgctcaaagg gcgggacctt cgcaacatca ngaacctcgt cctcaagatg accggattca 180
tcgagaaatg aaatggactc aacaccgtgg gatgtggata cattgcttcg tcgtccatgg 240
acgtgtgtga aagtttgtgg caacctaat aaagttttca gtgagcgcag aggtgaagaa 300
agataagaga ttagtaata actctctgtt taattaatta aatttgtctg ttagtcgaa 360
ttttgcatgt gtantgtgcg agcagcttgc tcaagaataa atg 403

<210> 8210

<211> 140

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-E10

<400> 8210

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tgatccactg agtttacaaa ccgtttgtcc ctatttggtt gcaccaacca ttgtcgggaa 120
 ttttgtgtta acaatgggcc 140

<210> 8211
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-E11

<400> 8211

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 accactgctg acggcgacca atcgtttact gatctcgggt taacaagcaa gcaggaagcc 180
 ttatttatag agcagattac tgattagggg aaaaagattg agcctcacct agggatacca 240
 ccatctgaga ctgagttggg gttttacatg tctatacttg catatggctt ttactagga 300
 atctaaaatt ggtctgtgtc gaagagttca aactgcgttc ttttgtgatg tggaacgggt 360
 cgcatacctt tagtcttatg taggggggtat aaaacagtga tcagcaacgg attcaggata 420
 tttggttatg aatg 434

<210> 8212
 <211> 349
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-E5

<400> 8212

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 aggattgaat aaaatcgtgt cacgaaggct cgggcacaag tgctgaagcg ccaatttcac 180
 aagttgcaga tggagaaaac tgaatcgggtg aacgactatg ccatgcgtct gactactttg 240
 gtgggagaga tccacgcgtt tgggtcanag ctgcagcaga ccgagattgt ggagaagttt 300
 ttcagtccgg tgactgatan attcacgtac atcatcggca cgctcgaac 349

<210> 8213
 <211> 362
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-E6

<400> 8213

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tgccgcgtga gctgaggcag atgaaggagg gcggtgttat ggtgagcctg gcggacaact 120
gcttgctcaa gtgcccgcac aagttcttct tctgccaggg gccgccgcag aagaaccgtg 180
acacatgtcc caagtgcgaa ccatgagagg ttccatactg tagataacgc attcatgtcg 240
tataccttaa tttcatcggt tactgtatct catcggttac tgtccggatg atgaacttta 300
ttgatcgaat aatactacat aactttgctt gaacgcgggt aacatgccaa aagtggattg 360
ct 362
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<210> 8214
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-E9

<400> 8214

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atcggatgta cttttgtgtg atgagtgtaa ttaagctgtg accaatatgt acacggccgc 120
atgttgcggt gcgtgggtgc tgctgccggt cttgtgtact ccattgttgt gctgtgatca 180
ttcctttgaa taaatcggtc cgatcttcac tttaaaaaaa aaaaaaaga agaaaaaaa 240
aaaaaacaaa aatcagtata ccggacttaa tcagacatcc aataacatta atcggccctc 300
caagaggatc aaagctaaca tactccggca agctagggtc aagctctcct aaa 353
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<210> 8215
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-F1

<400> 8215

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tcttctagaa agcccatggt tgaagaaaag ttgaataaag gagatacaca gcctactgat 120
atgtcaggcg cgctctccct ctccctcgca tttccagcat caaaggatca ataggctggt 180
aaaatgcaac cggaatcgca aagaagcatg agatgagcag tangaatata ccgtcttcga 240
ttatccagtg atgatggctc ctgaccttg cattcctgat gtcttgctg atgcaacctt 300
gtagcatcaa cccactgcac aaggagtctg cctaaaacac aactatcttg tcaatg 356

<210> 8216

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F10

<400> 8216

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atataaatat cagttccaag ggacggcttc aatgcaccaa accaccatgt actcctacat 120
ggcctcgcaa cgatagcttt accacaacgt cttcaatacc tcaactctcat taacgacaca 180
tgctttcagt ccaattgagg accctgatga atcagagctt atacgattct aatcgttgca 240
agcataacat tttaggaata cagtatggct cagacagctc ctacacatgc tagtgcgttt 300
catcgactta ctgtggcaat gacaagtcac gcataagaaa gtgggtttaa ctaccgcagt 360
atacactaat ttgaatcgca ttgt 384

<210> 8217

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F11

<400> 8217

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acgcaggcca ctataattct gaaccaaaca aactggatt tttctgtgat ggaggagatt 120
atgatagcta ttatggccgg ttcttttca actggtatgc ccaggtgttg ctggatcatg 180

cagaccgcgt gctgatgcta gccaggttgg cctttgaagg ctcagctatt gctgtcaagg 240
 tgtcaggcat aactggtgg tacaaaactg ccagtcatgc tgctgagctg actgctgggt 300
 tctacaaccc atgtaaccgc gatggctatg ctccaattgc ccaagtattg aaaaagcatg 360
 gtgcggcttt gaacttcacc tgcgtcgaac tgcgcccat ggattagcat gaggtgtacc 420
 ccgaggcctt gccagatcca gagggcttgg tatggcaagt gctg 464

<210> 8218
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-F12
 <400> 8218

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 ggcacatctt tgtgccggtc gagctagtcg tactagaaga agctgcttgt ggattaattt 180
 tattectagc tttctcacat ctttgtgcta tcttttctgc caacatttct aatcagttgt 240
 attgagctat ataaaaggac tattcttgag tgtgataaat acatgatgca ttgcttttgc 300
 aggggtaaag acttggaata gaaaaatccc tcccttgga gcttggggcc tcatttgtaa 360
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 ctat 464

<210> 8219
 <211> 221
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-F2
 <400> 8219

cggtgcgacc ggcggcaaga cgcaccgcaa gcagctggcc accaaggcgg cgaaggaatc 60
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 tgcgtgagat ccgcaggtac cagaagagca cggagctgct catccgcaac cggccgtcca 180
 agccctgat gcgggagatc cccaggaact tcaagacgga c 221

<210> 8220
 <211> 391
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-F4

 <400> 8220

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tgcagtttca tcaggctcct cgcctacgtc gccaacctct tcttcaagct caagacgcat 120
cgccagctct tcgagccgca ggaaattgag ggcggcaatg atgataagga aaaggcggtc 180
ctcggttttg ggagcgcgct cttctggctc atcctcatga ccatcataat cgccgtgctc 240
tccgagtact ttgtcggaac catcaagccg acctcgcatt cgtgggggtct ctcggttaagc 300
ttcatcagca tcattctgct ccccatcggt ggtaacgcgg cggagcacgc cggagccgtg 360
atcttcgccc tgaagaacaa gctgggcata a 391
  
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<210> 8221
 <211> 357
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-F5

 <400> 8221

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caacggtgac aaggctcagat gatcctttta tagagcatgt tcaaaagttc agggctcatg 180
tgggatgccc acctgaccat acgtcagggt atcaaccttt gatgtttgcg ggacattgta 240
gtgtgaacat tgtgtgtgtc ctgtataaca tgtctaagct gaaacggtcg tctgaaatcg 300
atgtggtata ggaccatgcg gtagccatcc agagttcttc acattctgat cgtagtg 357
  
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<210> 8222
 <211> 261
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-F7

<400> 8222

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aaaagaataa gaaatttagct acaagaaagg aaggggaaaat tccaaccaag actcccccg 120
ccttaaggtt ttaaaacaag cccgttaaca ttgggaattt ccaagatttc aacaaatccg 180
gttggaacc ttccccgaa ccttccaagt ttccccgaa cgggtcaac caccattcca 240
ttgcgccaac cttttgcaa a 261

<210> 8223

<211> 439

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-F9

<400> 8223

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cttcataaca ttttcttttc ttccaaaact tttctggtgc aattcacata agctcttgca 180
cttctagtac tcaacaaatc gatgatcctt aagcgtgtgt cctggcaggt tcggtaaatg 240
tagacaagac ccggaacacc ttccggtcaa tggccaatag cagaactgtg gacatccata 300
ttgtcccccc tacacttaca cgaattatta tcgagtgaac ctattgttct gacacacaat 360
tccctttatt tcacaatata acataatcaa aggtgatact tattggtatc catgtgaagc 420
aactcatgat canncatac 439

<210> 8224

<211> 181

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G1

<400> 8224

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ggcgaatcca acctccaaac ctggggagcc ggtggatctt ttttgcaaaa tgaaagcaaa 120

cttgtccaac aaaaaaaaaag ataaaaaaaaac gtaaaaaaaaa acgggcgggtc caaaagattc 180
a 181

<210> 8225
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G10

<400> 8225

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tacaaaattt tcagattact acagactgtt ctgtttttga cagattctgt tttctatgtg 180
tcatttgctt attttgatga atctatcggg agtatcgggg ggtatgaacc atggagaact 240
tggaatacag taggtataac acaaattaat ataaatttag aatgatttca caacagtacc 300
taaagtgggtg atttatttta ttatactaac ggatcttacg agttttctgt tgagttttgt 360
gttgtgaagt tttcaagttt tgggtaaagt tctgatggac cacgaaataa ggagtggcaa 420
gagcctaata ttggggatgc cca 443

<210> 8226
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G11

<400> 8226

ccacgggggag gtgacggtgg ctacgggttt cacggcgggtg cgggcgcggc tgcacggcc 60
atggtgggag aaggcgaggg agaggaccag ggggagaaaag gaggtgtcag caaggtcggg 120
gcgacatcca ggaagcgatc cacgtggcgg gacgggtgtct agggcatagt agagaggcgg 180
ggtggtgctg ggcgagctca ggcgcgccgg tgetcacctc cctgcctgcc tggcgggagg 240
aagcagctga ctggcgtggg ccagcgcaat gctgggacgc caggtgggct cccaggtaag 300
tttcctctc tctcagtttt ctgttaatgt ttttctattt ttctgtaact tctgggcttt 360
attaaaaata caaaacggtt ttcaaaaatc ctgaaaataa ttgttggtc tg 412

<210> 8227
 <211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-G12

 <400> 8227

gggattgata gaattttcac agttacacca gcatattgct tggggtagaa tcagttatatt 60
 gtaggcacag gtaagggaac tcaccgagag ataaacaatg tattcctaag gtcctcacga 120
 ttcattacag ttactttggt aacttgcaat gttaatcatg tgtatgtgca tgatattcaca 180
 tatcatctga ataatatcga tcagagtctt atgttatgca gaccattcaca gtgcaggata 240
 aatgatcaag ttgggtcaaac taccaagaaa atatttcagc tatccacaaa tgaaatatca 300
 tggaggataa atatctatgt gagggagtgc gaatgattgg aatcttcata acaaggtaac 360
 agaaaatcca ttaatatagg caactggtag aatttggtgg gtgtgcccgg tcagtctact 420
 ttcccatgtg ttttacct 438

<210> 8228
 <211> 292
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-G2

 <400> 8228

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 ggagccctgc tagagccccg gaggtgacaa agacgcagag ttccggcagg ggtgtggtgt 120
 tgtggccggg gtggtggagc ggcagcgaag gcaagagaga acgaaggaag gagagaaaat 180
 gagtaggatg gagtcacgga gtccgggaag ggttttgggt angatgggggt gtcggattcg 240
 tatgtttcgc atgtccggac tcccgcaaac tgggccact tttgtctccg at 292

<210> 8229
 <211> 337
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-G4

<400> 8229

ccgggtcgac gcggagaagg taacaccaaa ggaaaagaaa acacgtacac agaaagtga 60
tatagaagtg ttcaagactg tgaagcggga ggttcctggg atatctacgt ttcattgtac 120
ttagttaagt tgatgttact gttgtttttt ctgctgccc ccatgccatg aacaggcgag 180
gcaggcagct tctcaaactt gtgttggtgt aacttgatg atgggagctt aagtacatta 240
ctttgtttca taatacacca tgttctcgcc aaaaaaaaaa aaaaaacca aataaaaatt 300
ggaaaataaa tacaattgga aaataaagcc ttcccc 337

<210> 8230

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G6

<400> 8230

gccgacgggc aaaatgacgg aaacagaag actttccac tagaagtaaa aacagtgaac 60
tcacttcatg tgataacacg aaacatagt gcggcatctg ctataccaag acaccgtccg 120
cagaatgggg atagacccta caaaattcg ccgtagcagc acttccttca aaggagtgaac 180
gccaggcctt tacaccaatt gtacaggctc tgtactacta gaggttggtg tcggttcac 240
cgacaacctc catcgcgaaa agctcatttt ccatatcgcc ccattcaaaa gtggccatca 300
agcactactg ggacgcgaag ctttcgccc ctttaacgca atagcgcatt acgtgtctct 360
tacgcttaaa atgcccggtc cagcggcat aat 393

<210> 8231

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G8

<400> 8231

gccgacgggg gcggtgatca tccaggtgaa ccccttcggc aagatggagc acatcgggga 60
ggtggacttc gggacgcgg cggtggacat ggggctcaag tacatggcct actcgtgcgg 120
catggaggag agcacgctgg tggacacgct cgggcgcgac caccggcg tcaaggaccc 180

ggagtcgatc caccgcagcg ggtggagcaa ggtggcggag tactacctcg gcaagcagga 240
 cgtgaagctc gacctccagc ggttcgagcc ggtgctcctc aaggccatgg ccatgctcag 300
 agagtagccg ctccgatcga gcttcgagcc ccggcgcatt ggttgattcg cactagcgta 360
 gagcagttcc atttcttcta atttattcct attaatTTTA catatttttg ggtgga 416

<210> 8232
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G9

<400> 8232

ttcgcgcggt cgacgggcca gcaactgaact gactgtattc attccaaaac aacctatacg 60
 tatatagggc atccccaaat tagtaccacc tcgtttatat tatatcttaa atataaaatc 120
 acctaagtgg gacgaaacca agaatatcac cttgctttat tagtaggtat agatatagat 180
 atagatatgt aattttatat catttcttga actaatctat taactcagtg ccagtgcca 240
 ttttctgttt ttgcctatTT atttgtttca cagaaaaacc ataccaaagc aagttcaaac 300
 acgatgaaat tttatgataa tttttcctgg accagaagag accctagaag ctttgaggga 360
 ggctagaaaa tatacagaga gccacaaggt catacggagc accccaaggg gtgcaccacc 420
 tgagcttggtg ggcccctc 438

<210> 8233
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-H1

<400> 8233

cgggtcgcag ggtggtacaa aacagagcat cgagtgaagc ataattgcgt aatggcaaga 60
 agttgcggag agatggcgca ctggccatct cacaaccata ttgatggcgc actggaaatc 120
 ttctcaggca aatactgtaa tagccaccaa tggtttgatg acattgctta ttgcaagact 180
 tgaccatcga aaagttattg cttgtttgac tctgctgaaa ctaataaagg tttggTTTT 240
 attcttttct ctcatggttg agtgattcta cttgtcaagt aaccaacaac gtttttagag 300

taagcttaga attttgggtc actcatgata aattaagccg ggaattaggt taataaaaaac 360
 taaggcggga attttggata ctctgtatca ttgaagtgtt ccatgttgtc gtgtacaatg 420
 tgagac 426

<210> 8234
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-H10
 <400> 8234

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 tcgggaattt tagaccaagc ttctgataaa ctaagatttt cggctaaacc attgctaact 120
 ctctgatata tttcttgctg aaagtatccc tgatcccact gataacgagt aggcccaaact 180
 aattcgattg gggtcgttgc tgaccatac cacatagtgc cagcaactac gaaagctgca 240
 aaaaaaacag cagcgatact actggaaagt acagtttcaa tattgcccat acgtaatcct 300
 ttatatagac gttgaggcgg acggacacta agatggaata agcccgctaa tatacccaat 360
 gtacccgcag caatatgatg agaagctatt cccccggaa caaaaggatc ananacttct 420
 gcacccacg ctgga 435

<210> 8235
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-H12
 <400> 8235

gggccacggg aggatttcgt tggcgggggtt gaacctggcg aagtgcgagc accttgccga 60
 tgccatcatc gactccttcc acaatgtcaa ctagattatg atttgcgctc cggccacgct 120
 actgcgatta gttccttcca tagtttgctg ggatttttgg gtccttccag ctcgagtttt 180
 tagtcgcgat gctgatgacg tgtccggtga ttcagaggta cagtaataaa taatttggca 240
 aaactcaggg atgctaggcg ctatgcaact gtaccgtttt gcaagcttgt aatgctgatt 300

aattatgtat gatggcatct ccaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 360
aagaacaaaa a 371

<210> 8236
<211> 390
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-042-Q1-E1-H4
<400> 8236

cgggggccaac ggggcaatgc aaaaccataa tggcacctcc caaggggcaa taacaaaaag 60
gttcaacctg gcataacctg agcaacatgc agcctgcccc acaaattggct acggacaatt 120
tgggtggcca caaccttcat acggctgcca tgctctccgc agctggacgg ggtggacctg 180
aactcgtccc taattcattg ctgccttttg aggtttccgt cgtgcttcgg ggcccataat 240
ggatacccac tatatatcgc aagaagtttt cagttgacat gcgttgcttc gccggggata 300
aggtttggct aaagcccga acccctccta atggtgggcc ttcagttggc gggtcattac 360
catgtccaca atttagacct ttcataatgg 390

<210> 8237
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-042-Q1-E1-H6
<400> 8237

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ctttgctttg ataaacttct agatttttgc agtaagtata tgagttcttt atgactaatg 120
ttgagtccat ggattatagc cactctcacc ctccacctt tgctagcctc tctaataccg 180
cgcacctttc gctggatca tacacctacc atataccttc ctcaaacagc caccatacct 240
acctattatg gcatttccat agccattcca agatatattg ccattgcaact ttccaccatc 300
tagttcatca tgacacactc catcattgtc atattgcata tcccgggtaca ccgcccgatg 360
cattcacata gagtcatatt ttgttctaag tatcgagttg taaatgttga 410

<210> 8238

<211> 412
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A10

 <400> 8238

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atgacaaaaa aaaagttccg gaagaaatat ggttactgcg aaaaggcaga cgtgaagtgg   60
aagccatatg ctctgattt caagcacaag aatctggcta agctcaccat ctacggcttc  120
caacccaacg acaattttta gcgatacatc aggtgtgttg tggaacatgc ggttaatata  180
acagagatat ctctgtacga caggaagctg tgtgggcgct gtggtgacaa ggtttatcaa  240
tcaagatata cacggactgc cgaggagagg aaacgaacgg ctgaagggtt gggtttgact  300
tcacctgctg tgattcactt ccggctctaa ctgaaaaatg atttgcatga tattcttata  360
tgtagtttgg aaatcaactc ctatcatctt tagtcggaag gagttcctga ac          412
  
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<210> 8239
 <211> 404
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-A11

 <400> 8239

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cgcaaggacc ttatggtttg gtctaacccc aaatggcata aacccttttg gggagcaaaa   60
cagcaaccat agcacctggc cggtgactct aggttttgta taaccttcct ccttggttgt  120
gcatgaancg gaagttcatt atgatgccag tgctcatcca aggccctaag caaccggca  180
acgacattga tgttttacct aaggccatta gttgaagaac tcttacaact gtggaatgga  240
ataagtgtac gtgcgtggga tgagcacatg ggggaagaat ttgacctaaa ggcgtttttg  300
ttcatgacca tcaatgattg gcctgctctc agtaaccttt cangatagac aaataaggga  360
atacgcggat gcacgcactg tttggatgat accgacagta tata          404
  
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<210> 8240
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A12

<400> 8240

gacgagggaa tgtaagcaca gggttctgtt ctcttccatg tttttctgct gttgtgcccc 60
atattgatccg tgtgtgaaaa gagaatgact atgggttttt gtgtgcacgc gcgggtggca 120
cttgaatggg gtgcacgtgt acatgtgtgt atgctaacac cgatttggtg tgtgctgatg 180
atcatgtaaa ttattatggg ttgattgctc gtggatgtaa ggtctatgta cagttgttac 240
atgagtgtcg tacagcctcc gcatgcatgc gtgctgcttg gcattgcacg tttataatct 300
cgggttggtta cttgtaagcc agcatcagtt gtaaagtacg tgtgtcaaaa taagaaaact 360
ctttcctttt tttttggttc aagaaaactc ttt 393

<210> 8241

<211> 142

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-A2

<400> 8241

caaggcctag ttaaaactta aggcaaaggc gttcacctcc aaaattgtaa cctaaatcca 60
atgcatggac ttccggttga cagcctggga acgggtaaac ccttgtcggt tggaaattta 120
accgcgtagc gtcaaattta cc 142

<210> 8242

<211> 318

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-A3

<400> 8242

gactggggaa cggatcggca gctcctaccg ccagggtcct ggagaagtac aaggatgagg 60
cgctcgagcc agacattaag acaactataca tgaggctgga agtgctggag gctgaccggg 120
aatcgatgcy ccaggctctg ctgggaatgc gcactgagaa agctcagctt atgcttcttc 180
gggagatagc acaacagcta gccaaagacg ccgctccagt tggcactggg gctgggtctg 240
ttccagttgt ccaccatttg cccagaaagc aagctgtggg ggctgcagat acaacggtca 300
gggaagacaa gaagacag 318

<210> 8243
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A5

 <400> 8243

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cgggggaaca catgataacc tgtgtgcttg ttttgctagc gtcggtcgat cgatctcttg 60
tgtcaccgct gatgattggt ttgggtggca tgattatatt aagttaacta gtgagtagta 120
gcttccaact tgtatggatt gttgaatggt tcatggctgg atgggcatag catgcagcta 180
agcctctgaa tcgatcctgc tgtgatcctg aacaagggtt gactacatat aaatagcagc 240
acatatagtt tatcgacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aaggaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaggggg ccccccaaaa g 401
  
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<210> 8244
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A7

 <400> 8244

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gggaacgagg gcctctctct ccatcccgac ctctcgtggc cgccgcgaag aaaaggagct 60
tatcatggct tcaaaacgta tcctgaagga actcaaggac ttgcagaaag atcctccgac 120
atcatgcagt gcaggtcctt ctggcgagga tatgttccat tggcaggcaa ccattatggg 180
tcctcctgat agtcctctat ctggagggtgt tttcttagtg aatatccatt tccccccgga 240
ctacccttcc aagcctccga aggtatcgtt caagacaaag gtcttccatc cgaacatcaa 300
tagcaatgga agcatatgcc tcgacattct gaaggagcaa tggagtctctg ctttgacaat 360
ctctaagggt ctgctttcaa tctgtcact gcttaccgac cctaaccggg acgaacctct 420
cgtcctctg 428
  
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<210> 8245
 <211> 383

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B1
 <400> 8245

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 ccacgcatct tcgttattcg ctacgatcgg ctacaccgcc gtagtgtttc atatgcatca 120
 tgtcgcaggc agtcaaatgg attattgaaa tgattcgggt gactaaagct tcctagattg 180
 tgaatgactt tctacattgg ggcaaacaga gggtcgcgt tgattttttt gcacttggtg 240
 aacaacttag ggggcaacac cattccagca agcccaggc gccactggca tggatatggg 300
 tggtcgttat aacatatgga gaatatgcac atggaagtac tactattggg ccaatttatg 360
 ccagggtgtac atcaagatgt ttc 383

<210> 8246
 <211> 275
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B11
 <400> 8246

tgcgccaag gcagccatgg agttcctcga ctccctctgc atcgctggcg cgtccagaaa 60
 tgggatccag ctgctcaaac cgaaatccaa gaagaaacat gtgcaggcca agtccttgta 120
 gaggccgccg tcgtccaatg gccggggcgat cgagggggca gaggatgctg ttggtggtga 180
 tgtcactccc aagccgcac gtcgggcgac ggagagcgac taggggggtcg ctgcgaagct 240
 gcaccgcgtg atgaataact cgccccggat ttcct 275

<210> 8247
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-B2
 <400> 8247

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ggagtctgca cgcagcaaca aggcgtccag aagccccgat cagccgcctg agctgcogca 120
 tgtgaacaag gtgaaggcgc tcgtcggcgc cttcgagacc gtcattggacg acaaccaaaag 180
 ccccgccacc gcccgcaagc cgcgggtcaa cctccacgcc tgaactacga gtacattcca 240
 ccagcatgaa gctcgatcgc gtgcgcctcc tcctttatcc cggctactct ttaatcacc 300
 atcaacccaa tttgtcgtcg tcgcacactt atctataatt acggtatcgc ttacattttg 360
 caaagaagaa gatgatgg 378

<210> 8248
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-B3

<400> 8248
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 tccataaata aaaatttaag ggcgccaccac ttgaggttca aaggttcaaa aggtagggaa 120
 caataagaac gggccaagaa gcaccatttt tccttccaaa tcacaggtgt ccttaatttg 180
 gccaaagttta ttgcacacat cttagtatt agcatgagga atacaaccat agtgattagc 240
 atggatagaa atttgatatg ggtcagaggg atttcgaatg gcacatttgt gaggacgaca 300
 atcctgcact aataaccagt cctgacagtg tactgtttcc aagtgttgg agcaagtgca 360
 agtcagctgc ataaatcaaa actcatagag tcaacttctt gtatgcagca ccgacacatg 420
 a 421

<210> 8249
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-B4

<400> 8249
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 atccatatgt agtatggcca atgaggaaca gccaatggtg taaggtatat gcatatgaat 120
 aatcgctttc atctttatgt atataaaggc ggtgtttaca gcaccggcat agggaaagct 180

tggcctttac tagactcata cacctaattct gtcttctgca tgcctactga aacatttgaa 240
 tgctttcatg ccaaattgct taatcttacc aagatttgaa tgatgtcctt ttcataata 300
 atactcaatc ttgctcttac agaggacaca agctcgttta agctctctga gcctgtacca 360
 acaacataca agtttaaatt ttg 384

<210> 8250
 <211> 363
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-B8

<400> 8250

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 ccacaaagta ctcttatcat aaaacactac cgacttcacg aggggggaaac atcaacgagg 180
 gtaacgaact cttgtgcatt accatggatt aacacttaac tccttttgtc gaacaaatca 240
 gtcagtggca agtctccaaa ccacagaata ctttcgcacg tatgcatgac tgatttgga 300
 tgattccaca caaagcaaca ttgactttct cgaatccacg gcgggatctt gcatcagttg 360
 cac 363

<210> 8251
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-B9

<400> 8251

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 acaacagata tgctgctgtc agcagtcctc tctaaataga cactgcaatt atcgtataag 120
 tacatcattg ctgctgtcag cagtgtctc taaatagaca ctgcaattat catgtacatc 180
 attgctgtg caatgaacca ttaagaatta tttaaaatct agcctaccat ctgcgttgtc 240
 gtcaacagag gggtgaggcg gagttacaaa atctgtatga gaaaccgagg gattgtccga 300
 gtcagcgaca tctttgttat cttcagagct gtcagaagca gctgagatgg cgtcacctga 360

ttctgaatgt gttctgtcca catatgcttc aggtaaggag ctctcggcca cgtcagcatc 420
gccgttatgc cgagcaatc 439

<210> 8252
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C1

<400> 8252

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ctatttagag agatgacagg aactggatcat tcacatggat agtcataaaa tcctagataa 120
aactttaga tcaactgaata tgatatgttt cattccttgc aatagatttg cgatataaag 180
atggcgatat tacagtcatg ctagcgggta gttgtggatt actagaaata cttgtgttga 240
tgtttgtgat tcccataaca tgcacgtatg gtgaatcggt atgtaacgaa gtcggagcat 300
gagttaatta ttgattgtct tccttatgag tggcgggtctg ggacgagcga tggctcttttc 360
ctaccaatct atccccctag gggcatgcgt 390

<210> 8253
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C10

<400> 8253

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gtcgcccta ctgctcaggt ggactcaaat ggctgcttag gttgcgggca aaactgttgg 120
gtgcgcagtc gcgggggagc cgcaggcaat caatggcgac aaggctctgct caatcaacgg 180
acagggtgaa cccgaggctc cggcttaggc aaaaagttca gaagttacta aactacaaga 240
ctattcagcg ctggcacaag aggtgggtgag gaatagcgac tacgacgagc aaagacgcgg 300
tgacgcggc aacaacgact gtcgcctgct ctctggtaag gcctccatct tttatctctt 360
tttgtgtcac tttgaactat acacaagtgc aaactagttc ggctcaagaa aagtataaac 420
aagacacaac cctctt 436

<210> 8254
 <211> 337
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C11

<400> 8254

ggtgaatcat ctaataagga aactgcagat cttaaactta taagtattca tcccaatatt 60
 tttgctatca ttaaggaact gattgctaca aatgaatttg tcaatattgt gcctaaaagt 120
 tttataatcc ctagaaagaa agaaattcct aagggaaata gatgcatcat cgaagaattg 180
 cctaccaaag atggtaatac ctagatctat cctcgttttt atgcctagct ggggggtgtta 240
 aacgatagcg cttgttgga ggcaacccaa ttaatttta atcccttgct tttttccccg 300
 gctaagtatt aaataaatta tttacccccg gttttgg 337

<210> 8255
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C2

<400> 8255

gacacaaaac aaccgcccgg gcgatgatgg acgagtacta cgtcggcgag atcgacgcga 60
 ccacgatacc caccaaggtc aagtacacgc cgcccaagca gccgcactac aaccaggaca 120
 agacccccga gttcgtcatc aagatcctcc agttcttggt cccctcgcg atactgggcc 180
 tggccgtcgc cgtacggatc tacaccaagg cagactctgt ctagcaccgt catcttatac 240
 cagtcagtca gtcattcgga agtgtccaag agctgaataa gttttagtgg ggatttgcac 300
 atttgtacc agcgtcaccg tcctgtcatg gaatctggga actgctctcg acccgt 356

<210> 8256
 <211> 317
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-043-Q1-E1-C3

<400> 8256

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ctggacacct gtgtgttctg ggtccttcgt ctgggtgcta ctacatgtgt tgtactcctg 120
tttgctatat gaatggcatg tgggtgcttca aaaaaaaaaa aaaaaaaaaa aaataaaaaa 180
aaaaatataa aaaaaaaaaa aaaaaaaaaa aaaaaaatca aaataaaaga ttaaaaaatt 240
taattcacia aaataaaaaa taaaaaaata ttttaaaaaa taaaaaaaaa taaaaaaaaa 300
agggcctccc caaaaat 317

<210> 8257

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C4

<400> 8257

cgggtcgacg ggaaaccgga ctaccaatcc taaaaccccc cggcggcgga attcggcacc 60
caccaccaag ccgtccaaga agccccgatt aaacctccgg aacctccgga aggtaaacaa 120
ggtaaaggcc cccgtcggcc ccttcaaaac cgtcaggaa aacaaccaa gccccgcaac 180
cgcccgcatg ccgcggctca acctccacgc ctgaactacg agtacattcc accagcatga 240
agctcgatcg cgtgcgcctc ctccctttatc ccggctactc tttaatcacc catcaaccca 300
atgtgtcgtc gtcgcacact tatctataat tacggtatcg cttatatattt gcaaggagga 360
agatgatcga agggttatca tgatgtaata ataataatga tcatggaggg aaaaaaccca 420
cccgttgga aaaaaaaaaag cggccgcccc aa 452

<210> 8258

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C5

<400> 8258

gacgggggca catagaacat ctacacacat gcccatcgca atgccttcca tgccggctcc 60
ggcactagcc ctggcactgc tcgggtgctt cggcctcgcc atgccccgg ctgttcagtc 120

ggccccacc atcgaggcca tccaagctac atgcgccaag acaatacagc cagactcttg 180
 caaacacgtc ctgctcgcca tcatggccgc cggctcaccg gaggtgaaca gtgtccccct 240
 aatgtccctg caagtcgcgg caaagctcgc caagatggcc aacggcttcg ccaatgccag 300
 gctcaccacg gacccgcacc ccgccaatg cctcgcaaac tgcatcgaag accttcatag 360
 ggtggccaag gcatttgagg ggatcccagt gg 392

<210> 8259
 <211> 381
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C6

<400> 8259
 attcgcgctg cgacaggatt aattagattc atacccatca agtcgaacat aattgaggct 60
 catatacatg ctacagtccc ttctgaactc agaatactcg gctgaagaaa ttcagtctag 120
 tggatgctg tctatatctg atctgcaatc tcagctcgac agtcttctgt aggccatact 180
 tttgatctgt tttgttatgg tgtgtectct gagtctgagt gagaaatgca ctcgattggt 240
 catctatagt gatgttactt ttaatcctgt catcaaattt aaacacactt tgatatgaca 300
 tcaattatgg tggatggcta atacactatt gttgctaata tgtttagcata tcagattgat 360
 taaatcgccc ttccaacaa t 381

<210> 8260
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C7

<400> 8260
 attccggtcg acgggcgaac tgatgatggc ccgacgcgtg catgcgcgtg gcgtgaagtg 60
 atggcacgaa gcgttcgatg gaggagtcca tggatgaata aatagtactg tagctactac 120
 taaatgtatt tcgctgccc tgctactact gtagtcatgg ttgtataata atggtgtcag 180
 tatctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaa aaaaaaaaaa ggggcccccc aaaaggttca aatttaattt ccccttaaag 360
 ggaatttaaa accccttcaa aaggggcccc aaatttaatt tcacgggcg tcttttttaa 419

<210> 8261
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-C8
 <400> 8261

attcgcggt cgacgggttc caaaaatata tttaaaaaat atttaacaag taaaaataac 60
 atcatattca gattgtacac atttttctaa tcaaatttca tatataacat gttaaaattg 120
 gagttacagt ttaaaagata cagataattt agaaaagcat ttgttttatt taaatatctt 180
 ccaaaataat atttaaaaat atttaacagg taaaaataac aaaaaatata tggagagttg 240
 ttaaaaaggt tgtaaaaag atacatgatt ttctaactcat aaaaatattt ttttgtctgg 300
 aaaagatcat ttttgtatgg tcttctgtgg acgcaggtag ttgcgcccct atttcatcac 360
 tatttcttgc tatacatgtc 380

<210> 8262
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-D1
 <400> 8262

ttcgggtctac atgtgagtct gccgcggtac aaggagggcc ggctgcccgc cggtgacatc 60
 attctagcca gcggttagtc aaccgtggct cctaccatgc gtgggtggca cgaggtcctc 120
 catcggtgat ggcatcgcc gagaagacga gtcagagaca gaggacatca gaacatgctg 180
 attaaggaag atatcggtgt tgacatttta tgccacgtca gctccaacga ctgggccatc 240
 cttgtcataa tcacgatcga ttttaaagca ctcggtcatt tgggggtttt gaacagccgt 300
 ctctaaagtt ggtagttatc agcaccagaa taaacttagt agttttttga aaccctaccc 360
 cgaactgtag taattttatg tcatttactc gagttcaccg gaataatacg ttgggtttcc 420

<210> 8263

<211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-D10

 <400> 8263

 accacaagaa ccaacgtcag cgctcgccctg caagcacaac agaggattgg aactctgaat 60
 cggacgacaa ctgaagcaaa acaatcgacc atcgacagta aacctctgaa gaaatgttga 120
 aatgctgctg ctgcttggtt gattacagag agctcagtag gcaattaagg cctcacatct 180
 gacattagca tccgtaacat ttgctagcac tactcctagc agtacacaag atcacaagaa 240
 tctccatttg ctagcactac tcttagcagt acacaagatc acaagaatct ccatttgcta 300
 gcactactcc tagcactact cctagcatct gacattaagt tttgacggag aagagacagg 360
 aagaggaaga gagagcaata cctcaaggag tcatcaccca tggacgcat 409

<210> 8264
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-D11

 <400> 8264

 agccaaagat atctgtaccg aacggtgtca atggagagaa acagcaggat gccgtcaatg 60
 ggaagccaaa gtcgcctgtg gcgaatggtg ttaacgggga tgcgaagggt ccggcagaga 120
 aagccgctgc caccgctgct cctccggccg ttacctacgc ggcgaagggt gcccaaacag 180
 cagcggccga gaagaagcct gtggcgaccg agaagaagcc tgttgctgcc aacggtgctg 240
 tcaagaccgg agtagctgct tgatgcgatt acccgatcct ccagctagc catgaagaac 300
 aaacggacgg tgctggcgaa ccaggcgaga catgcggggt ccaaggtact gatcatcaaa 360
 ggtggcgtct ggaaagcggg tccgataat 389

<210> 8265
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-D12

<400> 8265

ggggccagcc tgaacacttg agttcatgct catggaaaca atgtagaatt tttcatgaag 60
attctcacia aaaaataatt atccccttgt accattccat tgtattataa aaataatgtg 120
ccatgatttg cctttaggat gagtagattg cttgttggtt tgtgcggtgc aaacataaa 180
ctttggctgt agtgctcgat ttacattttt ttactcaa atgtcaaatgat tctgaaactt 240
tttgtaatgt ctttatatat aatTTTTTTT cttttttcct aatTTTTTca gaatttttag 300
agttacagaa gtatggtgga tgttcaa atc ttacagact gtgtcctgtt ttcacatatt 360
gttggttatag cttcattatt tgcgtatgtt tg 392

<210> 8266

<211> 333

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-043-Q1-E1-D2

<400> 8266

ggagctaagg gattcttcag gggatgggtg cctaccttgc ttggttacag tgctaagggg 60
gcttgcaagt ttgggttcta cgagttcttt aagaagacct actcagatat ggctgggcct 120
gagaatgctg cgaagtacaa gacctgatt taccttgcan ggtagcttc tgctgaggta 180
attgctgata tgcctctgtg cccctttgaa gctgtcaagg tccgtgtgca gacacagcct 240
ggatttgctc gtgggttgag tgatgggctt cccaagttca tcaaagctga ggggtgctgct 300
gggctctaca agggcattgt tccgctctgg ggt 333

<210> 8267

<211> 395

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-043-Q1-E1-D3

<400> 8267

gtggcanaaa tagcgccgga ggctgcattc tggccataat accgcctggg ggaagaagg 60
gtaggaggat tttgttgac cagccattat taaattgaat gcgtggaac cactattttc 120

ctttaagtt caagtaaaac taaaactcga tcaataacat gccacagcat ccaggaagca 180
caatactata tcattcacgt gcggtccccg accctccatc aagttgaaaa ctagactagt 240
gaaaatgtca attaggatgc ctctttgcat acaaatgtgc tcctagcttc aaaaaaatg 300
cactcctaca tgtacccgcg aatgggtgtg agagaactag tgcgtgcatg caccgcttcc 360
cttcgtgaga gtacaatata ctatgccaa agaac 395

<210> 8268
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-D4

<400> 8268

ccggtcgacg ggtgagcatc atagaaatat tatgcctagc tataaggctt taaagaaaag 60
cgcttggttg gagacaacc aatatttttc ctttctgtta ttcaataaat aatttatcta 120
gcctctgttt tggttgtgtt tgttgtgttt aattagtgtt tgtgccaagt agaaccgttg 180
ggaaaacttg gggaaagtct tgtaatctt gctgtaaaa acagaaactt tagcgctcac 240
gagaactgct gtaattttta ttttgaaagt gctatttagt taattctttt ttgaagatga 300
ttaatagata aattcctcac gtccagcaat ttattttaga atttttgggg ttccagaagt 360
ttgcgttagc tatagattac tacagactgt tctgtttttg acagattccg tttttcgtgt 420
ggtgtttg 428

<210> 8269
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-D5

<400> 8269

attcgcggt cgacttgggt aggaagcttc cttagacagg tcagtctgcc gggggaggag 60
ggaggcgggc tgcccgcgg cgacatcact ctagccaccg gttggtcagc catggtggcg 120
agcatgcgtg tcgagcacga ggtcctccat ggctgagggc gaacggcgag aggaagaaag 180
agagacagag gagaagaaaa catgctgagt aaggaagata tcggtgttga cattttatgc 240

cacgtcagct ccaacgactg ggccatcctt gtcataatca cgatcgattt taaagcactc 300
 ggtcatttgg gggttttgaa cagccgaccc taaagttggg agttatcagc aaaaaataa 360
 aattagtagt tttttgaaac cctagcccca actgtagtag ttttatgtt 409

<210> 8270
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-D6
 <400> 8270

attcggggcgt cgacgggaca gggcacgaat acctgcagca cgagaatttc atggaatgag 60
 cagtcagtta gtcaaggcaa tgccgagtct tattttttaca aaagtccagg aagacaattg 120
 tacttcgtca acatgtgccca tttgcttgga agactacagt gttggtgaaa agataagggg 180
 gctgccttgt cgtcacaagt tccatgctgc ttgcgtggac ctgtgggtca catcatggag 240
 gacattctgc cctgtatgca agcgagatgc aaatgctgga atgtcaaatt tccctccatc 300
 agagtctacc cttttgcttt cttctgctat tcccttgcca gctgaatcga cagctttgtc 360
 atcttttctg tcaatgggaa cagcatctcc tccaaggaca at 402

<210> 8271
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-D8
 <400> 8271

attcgccgggt cgacggggaa cgtgatcacc atcttcgagg aggaaggcgg gcggccggac 60
 gccatcatga tcctgacggt gaagcgcgac aacatctgca gcttcatctc ggagaccaac 120
 cccgggcacg tgcggtcgtg ggagaccaag gacagccagc tgacgatggt ggcggaacgac 180
 ctgaagccgc gggcggtgct gacgtgcccc gagaagaagt tgatccagca ggtggtgttc 240
 gccagctacg ggaacccgct ggggatctgc ggcaactaca cgggtgggcaa atgccacacg 300
 cccaaggcca aggagattgt ggagaaggcg tgcgtgggga agaggagctg cgtgctggcc 360
 gtgtcgcacg aggtgtacgg cggggaactc 390

[illegible][illegible][illegible][illegible]

<210> 8274
 <211> 399
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E10

<400> 8274

cggagcagaa atgacgctct agatgcggtc atagcgcaca gagcgcgtgc attgccatgc 60
 cagctgcacg gtcaccacga cacaaggcac agggatgtca cgagaggatt gcaaaccttg 120
 tctggtgatg tttccttcca ggggtggagca tttatgagtc tatggcttga tctgaggtgc 180
 tatggtgaag ttggaactaa gttctgaagt ttgctgtagc aaacttggct gcgcactagt 240
 gatcaacagg gatacaattg gagccaacga ggttgtctgg ggtgttaaga ttaggaaaga 300
 ctaaaatccg ggggagtttg aggaaaaatg gaccaaggat taatatagtt gctttaaacc 360
 ttcatatattg gtccaagacc aagattatga tgatgcact 399

<210> 8275
 <211> 150
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E12

<400> 8275

ctggggtagt ataagaacat tgtcaccaca gtagaattgg tcatgaaatt tttgtccag 60
 gtgaaaccat gtactaatcg aaacgggtgg taacgcaaaa aaacacgaga aaggcgtacc 120
 ggtcaaagat aaagtaaaat aacgtacttt 150

<210> 8276
 <211> 376
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E2

<400> 8276

cgggtcgacg ggggcgcagc aggacggtgc agacgtcagc gggctcatct ccatgatcat 60
 acaggctgtg ctgacagccc ggcacaatag gttcagtgagc gagcagctcg cgcacgggt 120
 cctcatgatt gcgcagctcc tgccgaacgt gaaggagcca gaggcggcgc agccacttgc 180

cgggctggac agtactcttc ggagagccca cgagcttgtc gtgtcctgcc aggagaggag 240
 tgcggcgtag cagtttttca tggctagcag gactgccgag aggttcaggg aggttagagag 300
 caagatcgac tectacctca tectcttccc ggtgatcagc tatatcggca taacacgccg 360
 ccttgaacga atctac 376

<210> 8277
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E3

<400> 8277

taaatttcaa ggcaatttca accacaacaa taacaataac ttaacaatcc atggcāaaat 60
 ggctttgcag gttcatagaa tacctaacag gaggtttcca gggcttgtcc attttttgat 120
 gtcattgcta cgctactatc gttgcacatc ccggtacatc gccaaaggca ttcacatata 180
 gtctcagata tcgagttgta acattgagtt gtaagtatat aacagtgtga tgatcatcat 240
 tagtacaaca ttgtccaag tgaggttatt acaataaaag tggatcataga agccctcccc 300
 cccc 304

<210> 8278
 <211> 336
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E4

<400> 8278

gcaccccatg atggcaaaaa tcaacaccga cgggtgacggt ttcaccaact taaccaattt 60
 aaccccttc ggaaacgcaa acccggggcc cataaaggac ttcccaaagg tcttcaaac 120
 aagtcaattt cacccaaccc ttccgtccaa agagccgatg catctacgta tggcttcgta 180
 tatcaatttc atgcaactac ctactccggt cacgatccag cctcagcttc acctgaggcc 240
 gccctaaat ttgtatgatc aaatcttttg ctactactag ttactactga tgatcactgt 300
 tgcacatatt atttatttat tttatatatc atcaca 336

<210> 8279
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E6

<400> 8279

gacctccgcg gacaagggtgc agcgcgatgat ggcagagatc gacaccgacg gtgacggctt 60
catcgacttc agcgagttca tctccttctg caacaccaac ccgggggtca tgaaggacgt 120
cgccaagggtc ttctgaatca gttcatttca cctcagccgt ccgttccagg agccgatcca 180
tctacgtacg gcttcgtata tcaatttcat gcaactacct actccggtcc cgatccagcc 240
tcagcttcac ctgaggccg cccataaattt gtttgatcaa ttcttttgct actagtagta 300
actagtgatg atcactgttg catcatttag ttatttattt tatatatcat cacaagtttc 360
ctgtgattct tttctttcta tacctttttg 390

<210> 8280
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E7

<400> 8280

attcggcgtc gacgggccta atgaaaacta agggatatta atgcctcctt ttaatagagt 60
accataccaa agcattagca cttagtgaat acacgaactc ctcaaactac ggtcatcacc 120
gggaagtgtc ccgactattg tcaactctggg gttgctggat cataacacat agtaggtgac 180
tatagcttgc aagataggat caagaactca catatattca tgaaaacata ataggttcag 240
atctgaaatc atggcactta ggccttagtg ataagcatta agcatagcga agtcatagca 300
acatcaatct tagaacatag tggatactag ggatcaaacc ctaacaaaac taactcgatt 360
acatggtaaa tctcatccag ctcatcatcg tccagcaagc ctac 404

<210> 8281
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E8

<400> 8281
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 cttatggtaa tacatttatc atcctgctgc agaccttggc catatatgta agtcacgcac 120
 atataattca cacaataaat cacatcataa caatggaatt catcggcagg ccgtatatcc 180
 atgggatgat tttcgtacat agatctaaac aagaatggca tgtctacctt agggaaactt 240
 ctatatacac tcactcattg tttacacata cgtcagggtcc aagactccaa t 291

<210> 8282
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E9

<400> 8282
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 tggagcagag aggttatggc ggcttgggat ttcgaatggc gaaaaggagg cgatgggagc 120
 gggatgaagca tgacttaagg acacgcttat ccaaaatgta ggggtgtgta caaaagtacc 180
 cccaccgat ttgaactagc agccctttcg gctcagggtt agaaggggga tttcgcgtgt 240
 cgggatttgg cagctggagg gagttttcgc gcgcgttgta atttcgggag caaggcgcgg 300
 gttgtgaagg cgctagtgtt gggagcacga tatctaaatt ttcgggatat aacaagacgc 360
 gggttgaatt ttaggtacaa gcctaactg tagtaatat gtacttgtac gtaccaaacc 420
 aattcgcac 429

<210> 8283
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-F1

<400> 8283
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 gtctgccctc attggtggtt ctagcctggc attcacatct gccatcctgg acgttggtgg 120
 taatactacc agagtggaca atggcaaagc gtaccatgca tacacaacgg aaaagaagcc 180

cgagcctgcg cattgaccaa ggttggttac ttgtagcaca aatcatgcaa accagctcgg 240
tgaatTTTTg agctgatgcg tgctgttatg tctgttttgc tgatgcacct agttcctttg 300
caaagctgta gtaacttggt ttgctcgagg gcaatacaac agacctggaa taaatatctt 360
gttt 364

<210> 8284
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-F10

<400> 8284

gatcatgcta ttgacacgga tgccacggtg ctggagctct caagggcctg cagtttcatc 60
atgctcctcg cctaagtcgc ctacctcttc ttccagctca agacgcagca ccagctcttc 120
gggccgcatg atattgaggg cggctatgat gatgaagacg aggcggctct cggctttggg 180
atcacgctct tctggctcat catcatgacc atcataatcg ccgtgctctc cgagtacgtt 240
gtcggctaca tcgagccgac ctctcagtca tggggtctct cggtgagctt catcaccatc 300
atcctgttcc ccat 314

<210> 8285
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-F11

<400> 8285

tgaacggcat gtacaagggg ttcggtcccg ccatggcaca caatgtcccg gcaaacgccg 60
ccaccttcgt ggactatgag atcacggcat cggacctggg ctgatccgca caggtcacag 120
cgcagactca gtctcttctc cgatgccgca ttacacagag catctgagac acaattgagg 180
accatggtaa acaattcttc ttactgcca cttgtttcc gaaaaccatg catatactgg 240
caccaatggc aggattgttg atgaaataaa cgatgagcat tacctgtcga gcagcgtcgc 300
gggaacaacc gccgccgcca tggttacgat cactgatctc ggcatcttga tatgagttta 360
gctgacgcta aataacttca atcgcggcag ctttgcttcg atgaat 406

<210> 8286
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-F12

 <400> 8286

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agtggcggac ggagacgggc gatggtcttt tcctaccaat ctatccccct aggagcatgc   60
gcgtagtact ttgtttcgat aactaatagt tttttgcaat aagtatgtga gttcttttatg  120
gtaaatgttg attccatgga ttatacgcac tctcaccttc caccattgct agcctctcta  180
acaccgcgca cttttcgccg gtatcaatca cccaccatat accttctca aaacagccac  240
catacctacc tattatggca ttccatagc cattccgaga tatattgcca tgcaacttac  300
caccattccg tttattatga cacgctccat cattgtcata ttgctttgca tgatcatgta  360
gttgacttca tatttgtggc aaaccacct tcataattct ttcatacatg tcaactctga  420
ttcattgcac atc                                                         433
  
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<210> 8287
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-F2

 <400> 8287

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accatcttga aaatttgcca gtttacaaaa gtgaaathtt ggcaattgca ccaaagcttg   60
agatccctat tgtctttttg atttctccca attacactat agcgggtgaat tttgcgctta  120
ttacggacta tattgatggg ttgcattcta ctattgcaca tgatgatttt gatagatata  180
atatgcatgt gcatgctgct cctacttgca attattatga cagagtaact acatctccgc  240
ctctctatgt ttccaatag ataaaattgc acgaaactgt ttatactatg cattggcctt  300
tactttgtgt gcatgaattg ttcatttatg acatgccgat gcatatgaag agagttatac  360
cttcgtaatg acatgagata caatactttg tgct                                                         394
  
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<210> 8288
 <211> 347

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F3
 <400> 8288
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 tcccctccgg gttttacgcc aacaacgtgg atacatcgac gccaccaacc ggcgcggcga 120
 cctcacctac gagctcggcg agaatgagtt cgccgacctc acccaggagg agttcctagc 180
 caggtacgcg tcgtcctacg atggggtcgg tgatgatact ggcacacgt tgctgtggg 240
 cggtggcgac gccgagctgt ggtcgtccgg cggcgacaat gatagtcctc tggaggctcc 300
 gcctcccagc tgggactgga gatccaaggg cgccgtcaca ccggtca 347

<210> 8289
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F4
 <400> 8289
 ccggtcgacc gggatctgta cggacgctta acgcgccgaa tacgagtgcg catcctgtta 60
 gtacattttt ttatcagatc gtattactag tgtgtgttac ccatctccat gttagcatcc 120
 caagcccacg tgggtgggtcc ttccatccag cccggcccac tctgacgacg caggtctcta 180
 acacagacga cttcttgcca ttcaccaaca catacatgtc actataatgg atgaatgtgc 240
 aaatctagca agagggcata tatcacttta gttcgatgat ctgccatttc taaaacaact 300
 agtttcaatg agtgaaatta gaccatgtgg gcaggttggg aagctaccga cacgtgaatg 360
 caaacgatga gtgaaatcag a 381

<210> 8290
 <211> 276
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F5
 <400> 8290
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aggagcatca ccatattcgt tggcttcgac atcatacagt tttttgtaat aagtttgtgt 120
 gtgggtggat ggctaagtgt gtctcgtatg gattatcggc attctcacct tcaatgtatt 180
 gcaagactct cgacaatggc acacgtttct tcgttactgc tcacttgttt ccgacgtcct 240
 tgaatatact gacaacagtt acctaatagt ggattt 276

<210> 8291
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F6
 <400> 8291

attcgcgggt cgacgggtga ttgcactgta cattagggac tgactcctgt ctgcaaagt 60
 tcagtgggtg tacatatggt aaatgtgaag ttatgaaaga caccactgtt ggcataaaat 120
 cctatgcagg tattgctgcg gagggatatcg gaaacggagc gctcttgatg gcaatgaatt 180
 accatgtcaa tacatccaat agcgctttgt gggattacat gccaatgggt ttccacatct 240
 gaccttctcc gaaatttttg caccgtactt ccgccatgtt aggccgcgtt tcactttttg 300
 cttgttatga tagtatttca accctttttg tgggaaaagc tgatattggt tagatgttgg 360
 gtatagaaga gccatagagg gaacctaac aacacatttt cggcagcacg gtcc 414

<210> 8292
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-F7
 <400> 8292

attccggtcg acggggtgaa gaaggagaac gacaacatgc agatcgagct caggcatatg 60
 aaaggcgagg atgtgaactc cctgcagccc aaggaaactga tcgccattga ggaagctctc 120
 acgaacggcc agaccaacct cagggacaag atgatggacc actggaagat gcacaggagg 180
 aatgagaaga tgctggagga ggagcacaag ctgctggctc tgaggatgca ccagcaggac 240
 gacctgagca gcggcatgag ggagatggag ctcgggtacc atcagggtag ggatttcact 300

tcccagatgc cgttcacctt ccggtcgag ccagccacc ccaacttgca ngaagacaag 360
taggccaccg aatccctgca cggncgtgt caactg 396

<210> 8293
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G1

<400> 8293

cggtcgacc ggatctacaa gtgaagcgga atacatggca gcctcggagg cagcacatga 60
agcaatttgg gtgaaggagt tcatcaccga cctaggagtc ataccaatg tgcggggcc 120
gatcaaacac ttctgtgaaa aactggagc tattgccct gccaggagc ccaggtttca 180
caagaagacc aggcacatca agcgtcggtt caactccatc cgtgaaaaag ttcaagatgg 240
agacatagat atttgcaaag tacatacgga tctgaatgtc gcagatccgt tgactaaacc 300
tctctcgga gcaaacatg atcaacacca gaactctatg ggtgttcgat acatcacaat 360
gtaactagat tattga 376

<210> 8294
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G10

<400> 8294

ggggccacgg gctgattcaa attttgaact gggggcataa aggtccattt gccattttc 60
acctggtcgg aacatatcc ccagcgactt acatttcgga acggaggag tagtgactat 120
ctatttcata tctttattag tcatatgtat ccccgatcgt ttgctccatc agggataacc 180
ataaaataaa gcagatgcat gttgggttatt gaagagaccc agaggagcaa cttctgaatc 240
ttaaatatgc caaaagcaca ttcaacattt aaataattgt gtttacctt tgattaccac 300
aggggtgggta cagactggtc cttctgacct gtgatgataa ctcaagggtg ggcagcggcg 360
gctgtggtag caaacggtgg tggcggcaga aggggaga 398

<210> 8295

<211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-G11

 <400> 8295

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gggggatgcc acggaagcat cccatctttc ttcaacaaat atcggtatgt tttcggtttt 60
gtttcgttca cgtgatatgt gtaaactctg gagcgtcgtg tgctttttat tttttaataa 120
tgcaccatgc tggatgaga tagtccatgg ttggatttat agaatgcttg tgcttcactt 180
atatcatttg aagtttgggt tgccgtgttc tcttcacata cgaaaccgtt atttgtagaa 240
tgctcttttg cttcacttat atttattaga gcatgggtctt ttgtagaaaag aattaaactc 300
tcatgcttca cttatatcta tttagagagt caacaagaat tggtcatttg catgggttagt 360
cataaaatgc tacataaaac ttgtggatta ctgaatatga t 401
  
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<210> 8296
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-G12

 <400> 8296

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ggggccaggg gctctaacag catgtagggg tattaccgga tgatgtttcc cggggcccga 60
agctgtctaa atccttgtgt tgtgttgctg ctctcgatcc cgctcaacc ctctcaagct 120
actacataga tgcgctggcc tcgcgactaa gtccgtgacac taaggacatc tgccgtgaca 180
attccacgac acggcccatg tatggcccat gacgtctttc ggcccatatg aggcccttat 240
tactctcggc ccattaacga cccgtggtaa aactggcccg taatgaacag tgtaccactt 300
tataccatt aacggcccg ggtgaaactg gctgtaatg aacagtgtat cactttatac 360
ccattaacgg cctattattc cggtgggccc tttccagccc atgttatctt tcggccttct 420
cggggcccat ttgttcttgg gctca 445
  
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<210> 8297
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-043-Q1-E1-G2

<400> 8297

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tccttctttg tcagccgagt tgacagtctg atcgacaaaa tgcttgagaa gattggaaca 120
ccggaggctc ttgccctgag gggaaaggct gccgtagcac aagcaaagat agcaaaccag 180
ctttacctga agaaattctc tggcccagg tgggaggctt tggggaagaa gggagccaag 240
aagcagaggt tgttgtgggc atccaccagc gtgaagaacc cggcttactt ggacactctt 300
tacgtcgatc ctctcatcgg acctgacacc gtctctacga tgcccgaaca agctctggac 360
gcgttcatcg accacggcac agttgctang acaatcgacg ct 402

<210> 8298
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G4

<400> 8298

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attccgaatc aagaaatttg ttgtggaatt tgtcaattga gtaaagtaat aatattaaga 120
actagatcat ctaaccccat tgaatgaaaa aatgaaattc gattttcaag gaaatttttg 180
aataagagat aaataaacia ttgaattgaa aaaaaaaac ttctttctat ttgggataat 240
ttctttttca ataggaccct ctttttggag tgaacgatcg aatattcccc tattccttct 300
tattttaact gattgtattc catatggaat aagaggagaa caaaagcatt ccacgacctg 360
ccaaggggct gttaaaaaaa aaagaaagct cttccttgaa tttta 404

<210> 8299
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G7

<400> 8299

attcgcgcgt cgacggggga aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaagggg gccccccaaa aggttcaaac ctaacttacc cttaaattgca 180
 acttcaaacc ccttcaaaag tgccccccaaa ttccatttca ggggccttct tttaaaaact 240
 tcttaacggg aaaaccccg ggttaaccaa attaaacccc tttgaaaaaa atccccctttt 300
 cccaagctgg cttaatacca aaaaggcccc aaccattccc ctttccaaaa atttgcccac 360
 cctaattggc aatgggaacc ccc 383

<210> 8300
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-G8
 <400> 8300

agagggcgtg ataactcttc ggatacattt ggacaaacaa gacatcggac gtagggggaa 60
 ttcgttgaag cagttttcaa gaccgatgac ccaagacgaa gaagagctcg gaagatccga 120
 gggatgtctc caaacttgaa gactggttta ggagctactg atggtgtctc agaattgggg 180
 tcattcacca tgctgtgtcc cggccagggt ggccggggccg aggaccccat gtcggttcac 240
 tagtggacca catcaaggcg gaccatggct tgaagaagga atacttccga agacttggcg 300
 cctactccaa atacttagat gtcgtctaca acacaattac cttatacata gccgaccttg 360
 gtataaccct agccaaccct ggtatctata taaaccaggg ggacagggct cgtacatgaa 420
 at 422

<210> 8301
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-G9
 <400> 8301

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 ctagcatgca cgtatgggta aagttgtgta acaaatttga aacatgaggt gttcttagat 120

tgtgcatcct tatgagtggg ggtcggggat gagegatggg attttcttac caacctatcc 180
ctctaggagc atgcgcgtag ttcttggttt ttgatgactt gtagattttt gcaataagta 240
tatgagttct ttgactaat gttgagtcca tggattatac gcacttttac ctttccatca 300
ttgctagcct cttcgggtacc gtgcattgcc ctttctcacc ttgagagttg gtgcaaactt 360
tcccggtgca tccaaacccc gtgatatgaa acgctctatc acacatanac ctccctatat 420
cttcctcaaa acagc 435

<210> 8302
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H1

<400> 8302
cttgcccggg tttcccttgg ccccttggg tggtttcaact tcctcttttc ctttcctttt 60
tggtttatatt ttctcttctt gttgtggggg ggtccccctg tgggttcttc cttttcttct 120
ccgtcttttc gccttcttgt cctctttttg tggctctctt ccttcttttc ctggccctcc 180
tttttcttcc ttttcggcgg ggtccctcct gtttttcccc tcttttctcc ttttttcgct 240
ttccctcttt ttc 253

<210> 8303
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H10

<400> 8303
ggcggggggg gattctgcag ctctcaaact tcaaggatga ctccagtcca attgcctggg 60
actgttctgc gtgggttcgc acatatgggc agtttttgga ggaaagactg gaatgcttca 120
ggatcctgaa atatgatgtt gaggtgagc gtttatccaa acaaggccaa ggtcctgaaa 180
agggacacag tagaaccaga gacctagatt ccaggacct gttagagcag ttgccagctt 240
tgcagcagtt actgtatcgg cttgttggat gtcggccaga aggagctgca aataacaact 300
acttggtgca atatgctcta gctttggtgc taaaagagag tttcaaaatt tattgtgcga 360

taaatgatgg aattattaac cttgtcgata agttttttga gatggcaaga catgaagcac 420
t 421

<210> 8304
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H11

<400> 8304

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cgagcgagga tagcgaaatt agggaaatcgc ctgaaagatg gcgaaagccg tatatgtgga 120
ctgaatcttt gcaggatgct tggagacaag tttctcaaag agcaagatcc aaggttcagt 180
aaagaaccat atgtgagccc agtagttcag atctcgaaat cgtgctcagc ttttgcgctt 240
atcgctagcg atggcctatg ggatgtcatt accgcgaaaa aggcagcaca gcttgtcctc 300
gattataagg agaggaacat gggccaagaa atctcagcgg acggagtagc agaccatgtg 360
cttagtgaag ccaggaatct gcggacgaag gacaacacat 400

<210> 8305
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H12

<400> 8305

ggctaataag gaggaccttc ctttaagtgc cgcggagagg aagctaatgc atgcatacaa 60
cgagaagcct gtgctttcta gacctcagca tcagtttttc ctgggtgata actactttga 120
ggttgacatt gacatgcata gatttggtc catctcaagg aaaggtttcg agacattcct 180
ggacaggcta aaaatatgca tgctagatgt tgggctaacc atccaggga acaaaccga 240
agaattgcct gagcaggtct tgcgctgtgt taggttgaac gggatagatt atgcaaagta 300
tcagccactg atgacaaacg gtgcctgaac 330

<210> 8306
<211> 261
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-043-Q1-E1-H2

<400> 8306

gcgcggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagagga aaaaaaaatt 120

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggccccc caaagggttc aaccttaatt 180

tccccctaaa ggaaatttaa aaccctcca aaggggcccc caaatattaat tccaggggcg 240

tctttttaaa aacttctaaa g 261

<210> 8307

<211> 339

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-043-Q1-E1-H3

<400> 8307

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aaatttaatt taacttttgg gttaattttc caataattgt ggtttatatt caaaaaacca 120

aaaggtaaaa ttcatgtgag ctttagaaaa aattataaaa atataaaaag atgtcgccgt 180

atgttaaaat agatctatat agttccatta aaaatatgta cgtaatatat gaaagaaata 240

ttcatgtgtc ttcataaaaa tgtcattgag gattttaaaa atgtttatgc aatgttaaaa 300

aatgttgtga gcagtaattt ttctgtttcc agtaaaatt 339

<210> 8308

<211> 394

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-043-Q1-E1-H4

<400> 8308

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aatcgtcccc accccgaagc cccaggagag ggtggtgttc gtctctcact tcgtccgcgg 120

gctgggattc ccctcgacc cgttcggtccg tggacttatg ttctactacg agcgggactt 180

acacgatctg gcccccaacc ccacccctcaa catctcggca tttattgtcg tgtgcgaggc 240
 ctctctctgc ataccacctc actttggact atggctgaag accttcaatg tgaagccaaa 300
 ggtggtgagc ggtcagcaac cagagtgcag aggcgccatg gtgggcaaga tgcccaatgt 360
 cacctggccc gaaggatcct ttgtggagac tgtc 394

<210> 8309
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-H6
 <400> 8309

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 atacaagaag cgcgacgacg acgacgatga tgagaggaag ccacggcaca agaagcacga 120
 cgatgatgac gacgacgatg gcgagaggaa gccgcggtac aagaaacgtg acgacgacga 180
 tgatgatgag gatgacagga agccgcgtta caagaagcgt gacgacgacg acgacgatga 240
 tagaaagcca cgttacaaga agcagcagca cgatgacgac gacgacgatg agaggaagca 300
 gcgtcgcggg aacaaccgcc gccgccatgg ttacgatgac tgatcaaggc atcctgacat 360
 gagtttagct gacgctaaat aagtatagtc gcggcggcgtt tgcttcgatg aatcaacaat 420
 tccgtatttt 430

<210> 8310
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-H7
 <400> 8310

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 ctcaagcaac agcatttcat tggacactta cagttctttt catagctatg gcaccaaaga 120
 gactgacagc tgggtgaggc cacacctgga gcatgatggc tcagggtttgc tgctgcaagc 180
 atacgatgat gacattgaga aaatctgcta tgtgatgaat gagctagcag gtggtggtgt 240
 cgatggttct gctgatcgta tcatggatga gacgctttac tcgaatggca tcgatgattt 300

catgattttg ccagcaggca agaatgggga gaagaagaag cagctaacca tcgatcaaga 360
attcgagcag tactttctcaa aactcatgct ttagcgtgac cgtaacagag aattta 416

<210> 8311
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H9

<400> 8311

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aatcacgcaa ctgaagaagt cgaaacccgg gggaagttg gccaacatga aagctgacaa 120
acctaaatgc cgggtgatagg ttgttcgccg ctgtcgtgcc gtctttgaac ttggtggaga 180
cgcagaagca gtggcggagc taggatcaag ccatgaccgc ggcaagcccc aggccaatca 240
cttggtagag tgctaaacag tgtaaaatcc actacagtaa acgaaggagc caagcctcag 300
gaccaggcc gccgcccggg cagcctgggg cttgtctccg ccactatgca gaaggagaac 360
ggtggcgccg tgaagacctt gacgactgtt gccatgacca caaccatgat gattgtgttg 420
gtaataaaga ta 432

<210> 8312
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A1

<400> 8312

ccgggtccac ggggtgctgt tagagttccc gaccgggtac ggcgccatgg ccgcgagat 60
gaaggcattc ttgactcca caggctccct ctgggagaag cagaggctcg ccgggaagcc 120
cgctggattc ttcgtcagca ccggcaccca gggcggcggc caggaaacca ctgcttggac 180
ggcaatcacc cagctggtgc accacgggat gctgtttatt cccatcggct acacctttgg 240
ctcgggcatg tttaacatgg acgacatcag agggggcagc ccctatggag ctggagtttt 300
tgctggtgac ggtagcaggc agcccagcga ggcggaactt gccctcgccg agcaccaggg 360
caagtacatg gccgccttcg tcaagaagct 390

<210> 8313
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A11

<400> 8313

ccgggtcgac gggaacatcc agatcatagc ccacaccatc actaacatth agagcaacat 60
gtatgagtat atatccttca atatatagta ggcacatcta ctctatctag tatacaaaca 120
ttcactttac aacgtatcta ttgttgaaaa gcagctggaa atatatagat gcgtggagca 180
agttgtgcat aatatcacca tcactaattg ttgaaaagca actggaaaat tgtaatttaa 240
gaaacctcag agcattgatt caaatatcac ccatcatagc tcacaccatc actaacatth 300
agagcaacat gtacgagtat ctatcctctc aatatatagt aggcacatct actctatcat 360
acattcactg tacgacgtgt ctgttgctga aaagcaaccg gaatagatat agatgcatga 420
aacaagctgt ggacattgtg tggcga 446

<210> 8314
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A4

<400> 8314

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tgggtgcagtt gaagtagaag atgcatgcgg tgtccatgat gaaggtcggt gatgaggaca 120
tgactacctt ggatatgacc aaaaatattg catatatgca tatttgtcag gtgatttcta 180
gtgcaaacta ttcaataatc tatttatgtt atccagaaca aaataacttca cacacttttg 240
tgttttgtct aattgcaggt gtatgggaca tttgtagaat ccacatatga agataaggaa 300
gaaagagatg tttatttgcg gtccaaaaag ttctctcacg tcacttttgg cccaagagaa 360
gatagagtcc aagtctctca cgttctggat tcagattcgg actgcacaga cacacctgac 420
tcaaaacgca cacaagttt 439

<210> 8315

<211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-A5

 <400> 8315

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cgggtaccaa cagtcacatt caagtaccgg cagtttcggt aaccccagtt cctctctttt 60
gattgaacag aaataagatg acagctgggt acacataagt ctttccaatt ggcagtaagg 120
agctgagata aagatcacca caacgtgatc caaagaccgc aggtggcacc gcacgcgcag 180
cgggcgacgg caaccgccag ctaccgtcg ccaggcggaa gcgagctagg cttccgcaga 240
gccgcaatga tcttccggca gcatgagact gncaggatgg gttgtggtgc tgggtggcttg 300
gcgagccaaa tcatgcctcg gatgcatgat gccaaccttg gccgggaaga agacangacg 360
acggcgccat tg 372
  
```

<210> 8316
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-A6

 <400> 8316

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ttcccggggc gacggggggc accaagaggg gacctggcta ccattactac tgcagttccc 60
gcggtggttg aagatgtcca aggcgggttac caagaagatg cagaagctca acgcctactg 120
accaaactca ccagttcgcc ggagggtttt gatgggtttg tgctccagga cggcatcatc 180
cgccacaggg gacgagtgtg gctgggagca aatgtggctt tgcaaagaca ggtccttgaa 240
gcgttgcaca caggcgctat cgggtgggcac tctggtttca atgccacgta ccggcgtgtg 300
cgacatctct tcacgtggcc gagcctgaaa catcacgtga agttattcct cgaagcgtgc 360
cagacttgca agcaagccaa gccagaaagg attcgttacc cgggattgat cgagcctctt 420
cctgtac 427
  
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<210> 8317
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A7

<400> 8317

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ttttgtagaa attgctagtc tatcatgctt cacttatatt attttgagag tctcttagaa 120
cagcatggta tttgctatgg ttataaaatt agtcctagaa tggtaggcat ccaagttggg 180
tataataaaa actatcatag gaagtgaatt ggatgctatg atcaatttga tacttgataa 240
ttgttttgag atatggaggt agtgatatta aagtcatgct agttgggtga ttatgaattt 300
aaagaatgct tgtgttgaag ttagcaagtc ccgtagcatg cacgtatggt taaagttgtg 360
taacaaattt gaaacatgaa gtgtccttgg gttgtgcatc cttatgagtg gcggtcgggg 420
acgagcgatg gtcttt 436

<210> 8318

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A9

<400> 8318

ccccgggtcga cgggcgcata gagtacaacg agttcgtggc gatgatgcag aagccggcgc 60
tggggctggc gaagaaggcc ggggccgggc tggagagcag cttcagcatc ggcttcaggg 120
aggcgctgag gatggcttga aggaggagga ggagctaggt ggtagtcatg gcgacgctaa 180
tttcgttctg ctgctcgaag acgcttggtg tagagacatg gtgaggcgat tgagttttca 240
tagggctgaa gtggcagcag ctccctggcg gtagcggagg gtcgggactc gggacaacat 300
gtgtgtagta gaggcaggca ggcaggcccg gtgattttct tctcgctact ggattggttc 360
aattgtgtat tatactgagt ataaactaca gaaagctt 398

<210> 8319

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B1

<400> 8319

taccggtcag ctccgggtgc cggggagcac ataattgacg gcgagcacia ggagggcatg 60
atggagaaga tcaaggacia gatcagcggc gacggccacg gcgacggcaa gaaggacggc 120
gaccacaagg agaagaagga caagaagaag aagaaggaca agaagcacgg cgagggccac 180
aaggacgacg acggccacgg cagcagcagc agcgacagcg acagcgactg agccagctcc 240
ggccgcgctc cggcagcagc gtgcagtgtg ggcgagatcg atgaacgctt gggagaagtg 300
tggcatacat atatgttgca gggtttgag cgtgtggtag catatgtatg taatgcgtga 360
catgtctcat ggatcttggt atgtataata attagccggc tgcactgcac tgcacggtgc 420
ttgtaataat aacgttaatg aatcatgttg gta 453

<210> 8320
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-B11
<400> 8320

atgcccgggt cgacgggtgg cgccaaggct gaggccaggt tcaagcagat aactgaggcc 60
tacgaggtac taagtgatcc agaaaagcgt gcaatttatg accaatatgg tgaagaaggt 120
ttaaagggtg tgctccacc tggttcgcaa agccggaccg ccacagcttc tggctcaagt 180
gggccaagta atttccgtta caatcctagt gatccagatg atatctttaa tgagttcatg 240
gcgagcaaca agccatacac ctttgatcaa gaccgaaggc gctttcaacc agcacaccgg 300
acctcagcag tgaatggtcg aagtgaagct tcttccagtt ctcagaagga gcctggtacc 360
agtacaagcc atctggaaaa gccaccgcct gtggagaaga cttactttg cactcttgaa 420
gagctgtata atggaacaaa a 441

<210> 8321
<211> 252
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-B3
<400> 8321

ggttccattc tacctttcga gagcattgct cgggtcaactt ctttaaatgg cacagacaga 60

tgatcacccc gtgttcgcct gaccatgcgc tcaccttttc gacgcgcaat tctgcgaccg 120
aagctgccat aatcatataa tggatgtagt taaacaaggg atatagggaa accaatttgg 180
aagaaagggtg aatagatata gccagtaccg gtaattttcc ccggcggtaa atcacccaag 240
gaaccagaac tc 252

<210> 8322
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B4

<400> 8322

acggtcgtag cttccgggtg cacgggttga taaaaattac tatagactat tctgtttttg 60
acagattctg tttttcgtgt gttgtttgct tattttgatg aatctatggc tagtaatgga 120
gtttataaac catagagaag ttggaataca gtaggtttta caccaatata aataaataat 180
gagttcatta cagtacctta aagtgggtgct ttgttttctt tcgctaacgg agctcacgag 240
attttctgtt aagttttgtg ttgtgaagtt ttcaagtttt gggtaaagat ttgatggatt 300
atggaacaag gagtggcaag agcctaagct tggggatgcc caaggcaccc caaggtaaaa 360
tccaaggata accaaaagcc taagcttggg gattccccgg aaggcatccc ctcttttgtc 420
ttcgtccatc ggtaacttta c 441

<210> 8323
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B5

<400> 8323

gggaggggaac atcggtgatc tctgccgagg tgaagcctcc agtaaagcag caagtgagcc 60
cggcgccatt caaggctgcc gtggagaacg tctacatgac cgacgcgatc acacgggctt 120
ccaagatcat ggctcagtgc agcgcagcct tgttgaagag gtgagaccct gcgctaggta 180
cgtcgccttg aggaagttga gtcagcggca gacgagagtt ttagttgctt ggcgagttca 240
ctcaccagtt gtcgttgctt ggttggttgg gagcataaga tttggagtgc ctctacccta 300

gcgagatgcg gggagcagcg aaacgtgaaa gcagtgcacg tttctggaac gtgtgagaag 360
 cggagcatatc ttagtaagct tgttttgtcc t 391

<210> 8324
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B8

<400> 8324

ttccgggtcg actctgacga caaaaatact tgggtgttgg actggatgac cgaaaacact 60
 cattataagg caccggcctc tgaattactt cacgccctgc ccatcagtc tccacctgaa 120
 ggagctcgtt gcgtgtacca agagcctgaa ttgactgccc attatatgca agtaattatg 180
 aagcctctga agcctgggtc agctccaagg accaaattcc tcgtgaggca attgctctat 240
 gtgccaagaa ctgtctatcg cattctgacg aagacaatga gtccgatcaa aggccacgac 300
 tcgtctgata aggaaattgt tggcatcatg aagaatctgc tattcagtgat catacatgcc 360
 attcctgtca actagcatga tttcttcatg aggactctgg aaaatgtcgc actctctccg 420
 tttgag 426

<210> 8325
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B9

<400> 8325

cgggtcgacg gggtagaaga gctttgtcaa ctttgtcaat atgaacgatt ctagctctag 60
 tgaccgtacg atgtccatcc aacggccgta gtgcttcttc aacctctggt cttcttgctc 120
 tagccgcca aagcagcgtt ggtcgtgccg catgctcctg cctcccgtgg cgggctatgc 180
 tgccgcagag gcctcaccgc cccctactat tcccaccgct ggccaggccc tacggcgacg 240
 acagcctcac accgcagccg aaccagtga cctcgtact cctctccgcg cgggcttcca 300
 ctgcgcgtct tccccggctc cgcgtcgtcc ccttcttagg cctcgcgctc gtccaccgcc 360
 ggggtgctctc tgccgcggcat ggtcaacgtg gtcaaggaac gacttccatc ggaagagtac 420

<210> 8326
 <211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-C1

 <400> 8326

ggggtgcacgg gtagcctcta aggtaccgtg cattgccctt tctcaccttg agagttagtg 60
 caaacttcgc cgggtgcatcc aaaccccggtg atacgatacg ctctatcaca cataaacctc 120
 cttatatctt cctcaaaaca gccaccatac ctacctatta tggcatttcc atagccattc 180
 cgagatatat tgccatgcaa cttccaccat catcatcatg acatacatta cttttgtcat 240
 attgccattg catgatcatg tagttgacat cttatttgtg gcaaagccac cttgcattat 300
 ttttcataca tgtcactctt gattcattgc accatcccag tacaccgccg gaggcattca 360
 tatagagtca tatattgttc taagtttcaa gttgtaatct ttatgttgta atcaatagaa 420
 gtgtgatgat catcatta 438

<210> 8327
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-C11

 <400> 8327

gacgggagag atgattgttc atccaacaag agtgcaacaa gtatcaagcc gcatttgaga 60
 gcgttgaagc acggcccgtg agtgggtctcg acgttgggga cacggtatgc tctcctcttc 120
 ctagcccttt ccttgctacg gccatgagac ttcggccttg tatatgtttg catgttcaact 180
 tgttgttgat catgtggtgt aggcatttca atctttggtg gcattcaagg cccggcacat 240
 gacaagccat tcaactcttac gcattgttgg acgctcatcg acaattgccc taagttcaag 300
 gaccaatacc gtgaactaca aaggaagaga tgactgaaga cagccaagtt cgccggagggt 360
 ggagatggcg aggcgttgaa gaggccgagg ggcaagacca actccaaggt tgatgacata 420
 cgtgatgcct cat 433

<210> 8328
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-C12

 <400> 8328

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ccgggtcgac ggggtgaacat aatttgtaat gctggcttct gccccatgct cctggatgaa   60
acatgtagat tgcaagcatt acatcttact agggggcttc ataagcctct gctatctggt   120
agtctgttgt tgtgggtata gggttatgta aaaaaactgc attttttttc cggcaaataa   180
gcatatagtc accgtcaciaa tttccaatag gaaaaggcca ctacaccatc tggcacctaa   240
tgacaaaacg aagttccaaa gacaacacca acaggtcttc acacaattgt gcctattggc   300
cacaacaciaa caaatgttga gaagtttcaa cctggtcatg aaatgagcac ataggattac   360
cagaccattt tccttcctca tcacctcct agttagggga gtatcaccaa agaact       416
  
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<210> 8329
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-C3

 <400> 8329

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ttccaccagn gaaatatcca tcatctcatc gaaagacggg acacctttgc ctctatcaag   60
tggtatcaga tttccagggt gctcggtagag attttacagt ttttcgtagt ttagatcgag   120
tctgttcttc atacctacag tccacgaaaa agccaaaaaa aaaaattacg gttagtcat   180
catatccgaa ccaatctgag cctttgcata atccttttag ggttttgctt tgttgaattt   240
gcggttgcat cgtcgtgtct agttgctggt cttaaagtct agtcttttag agtttcgagt   300
tctggtcata agttgtcatg ccgcccgcgc accatcataa tcgccctgc catctaccac   360
caccgcttat ccgccacggc tccgaatcc                                     389
  
```

<210> 8330
 <211> 426
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C7

<400> 8330

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ttccggccga cggggagggt gagaagctga ttggcaggat agtgaagtgg ctgaagcccg   60
gtgggcatat ttcatcagg gaatcgtgct tccaccagtc tggggattcc aagaggaaag  120
tgaacccgac gcactaccgg gagccgaggt tctacaccaa ggtgtttaag gaatgccact  180
cctatgacca agaggggaat tcctttgagc tttctctggt aacttccaag tgcattggag  240
cttatgtgaa aagcaagaag aaccagaacc agatatgttg gctgtgggag aagggtcaagt  300
gcacagaaga caaaggcttt cagagattcc tggacaatgt gcagtacaaa tccactggaa  360
tcttgcgtaa tgagcgcgtg ttgggggagg gttatgttag caccggtgga ttcgagacca  420
caaagg                                           426

```

<210> 8331

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D1

<400> 8331

```

tacggtcgta cttccggggc caggggtgat gaaatcggag catgctttat ttattgattg   60
tcttccttat gagtggcggg cggggacgag cgatgggtctt ttcctaccaa tctatcccc  120
taggagcatg tgcgtagtac tttgtttcga taactaatag atttttgcaa taagtatgtg  180
agttctttat gactaatggt gagtccatgg attatacgca ctcacaccct tccaccattg  240
ctagcctctc tagtgccggc caactttcgc tagtacctta aaccatcat ataccttct  300
caaacagcc accataccta cctattatgg cgtttgcata gccatttcga gatattatgc  360
catgcaactt tccaccattc tgcttattat gacacactcc atcattgtca tactactttg  420
catgatcatg tagttgacat cgtat                                           445

```

<210> 8332

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-044-Q1-E1-D10

<400> 8332

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tgctgtgcga gaacggacct gagctgtgtg cgggtggtgtc ataaggagcc tatccatctc 120
cactagaatt atcccaagtt tcacttcaca tcgtgatgtt gttttacctt tttcctgtca 180
ttgtcctgct ataacggata gcgctccctg ttggcgccgc cgccggcggg gatgccctag 240
tgggtggaggg tgtatgtcct cttccgcggg gtgcccctgc ttgtacctag atggttactc 300
tttccgtcca ttgtcacggg ctaacattgt gataatatca gtctgggtaa tgtagatta 360
anaaaanaaa nnnnaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagcggccg 420
c 421

<210> 8333
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D12

<400> 8333

gggtcgacgg gtaacaccca cttactatgt ttttttttct taaaaatata aatcatgatg 60
tttttttttt catatctagc aagcttcac ccatgttcaca ttgattgtca cccaccctcc 120
tcgacctgag tacctagttt tctatactac gtctcggctc gtacttcagt tctagattta 180
gattagttta ataaagtggg actagaaaac atcaccatcg catgcatgga caaaaggcaa 240
aagcgacaag 250

<210> 8334
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D3

<400> 8334

ggggcatctt gaaagttcta aaaaactttc catcatttgc cacactactg gttgcatatg 60
aaaaacctac ccaagcacag cagcgtacag gagcgacgca caattacaag ctgatattct 120

gttgacaat ggaggctata accaattact tttacgggaa caatagcacc taggcaattt 180
gatgggtagg tatgaacaaa attggaactg cacatgtact gctaagtgat tcaatacaca 240
cattaccaat cgaggaggag aatgatggtc gcggcgccct ctgtgagtca tggtcggcaa 300
aaggagtcaa ttcattgtcc acgacgggtg tgcttctgcg cttggcgctg gcttccggga 360
agcagatccg agaccgtgga agacgggtgcc cgggaaaacg ctccgtgtac gacgaccacc 420
gtggaccgg 429

<210> 8335
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D5

<400> 8335

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acgagcgcta tttatttgcg aagcctttgg ttgaatctta gtggaagatt ctttcgagtt 120
cgagtagata attttgtcgg ttttgaggaa gtttgagggt gcttcacgt gtggaactag 180
atcaggacgt tatttagttt 200

<210> 8336
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D7

<400> 8336

ttccgggtcg accttcaatg ccaatgaaag gtactcttcg ggatcattgc ttccagtaaa 60
tttgggcatg gtgaacttta gtttgccgta gcgttgctct tcattgtgtt ggggtcgagg 120
gtgatgacga cttgacaag gaggattgtc tccctcaact tgctcttatc atggagggtt 180
gtcaacctca ttttgttctt ggcgaacttg aggttcttgt cgaggagctt gtggaacttg 240
acgatgcagt cgagcttgat ggttcctctc ttgaacttcc tcgcgaagcg cttcttggtg 300
ctcgcgcgtg tgaccgttgc ggtcggcgat ggcgcgactt gtttcatgga gggcacattg 360
ggccttgagt gcttgagctt cacgtcgttg ttgttggtgt cggagcgcct cgggtgtctg 420

ct

422

<210> 8337
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D9

<400> 8337

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gagcatccaa gttgggtata ataaaaacta ccatagaaaa gaattggatg ctatgatcaa 120
tatgatgctt gataattggt ttgagatatg gaggtagtta tattaaagtc atgctagtgtg 180
aggtgattat gaaaagtact tgtgttgagg gttgtgattc ccgtagcatg cacgtatggg 240
gaaccgcttt gtgatgaagt tggagaacaa ttttatttat tgattgtctt ccttatgagt 300
ggcggtcggg gacgagcgat gatcttttcc taccaatcta tccccctagg agcatgcaca 360
tagtgctttg gtttttgatt acttctagat ttttgcaaca agtatatgag ttattttgac 420
taatgttgag tccatgg 437

<210> 8338
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E3

<400> 8338

tacgggtcgta gctccgggtg cacggggagg ttgaaaagct gattggcagg atagtgaagt 60
ggctgaagcc cggtgggcat attttcatca gggagtcctg cttccaccag tctggggatt 120
ccaagaggaa agtgaacccg acgcactacc gggagccaag gttttacacc aagggtgttta 180
aggaatgcca ctctatgac caagatggga attcctttga gctttctctg gtaacttcca 240
agtgcattgg agcttatgtg aagagcaaga agaaccagaa ccagatatgt tggctatggg 300
agaagggtcaa gtgcacagaa gacaaaggct ttcagagatt cctggacaat gtgcagtaca 360
aatccactgg aatcctgcgt tatgagcgcg tgtttgggga gggttatgtc agcatcgggtg 420
gattccagac cacaaaacga at 442

<210> 8339
 <211> 341
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E4

<400> 8339

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 atgataatgt cgactgcggc gttgggtctcg gatgtgtaca gaataattcc tcgctatcag 120
 gtggtaataa cgcaccggaa cggacgctgt tcttgatgcg cggaatggca aggcaaagca 180
 ttctttcacc gagcaatggt gattgacgac ttgattacag acaagataga tttggcacat 240
 tcttacctgt aaagataatt tgccaaataa agccgtttat aagctttgcc actttgataa 300
 tctcttgtagc tgacacaatt tgaaagaatt cctttgagat c 341

<210> 8340
 <211> 303
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E6

<400> 8340

tacggtcacc attccggctg acgggcgaca ggagagtgat caagcagagc gaccttggcc 60
 tctatgtgtt tgcgtcgaag ccgtcgagcg gcgcggccat actgaggctg tagatcgacc 120
 accgccggcc gtggccggtc acttgtagat gcacacatac tctcgaataa acgcgtgctc 180
 gaggcgagca cgctgccatt agctaattta gtccccgccc atgcgtgtct gaatgtacaa 240
 tgccagtaca atgtgtagta gttatcggtt tttattatgg gcgatctgac tgccacgtta 300
 tct 303

<210> 8341
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E9

<400> 8341

gacggggagg gggagaaaca tcataagatc caagtataat agcaaagctc gcgatacatc 60
aagatcgtgc cacatcaaga acacgagaga gagagagaga tcaaacacat agctactgcg 120
acataccctc agccccgagg gtgaactact cctcctcgt catggagagc gccgggatga 180
tgaagatggc caccggtgag ggttcccctc ccccggcagg gtgccggaac aggggtcccga 240
ttggtttttg gtggctacag aggtttgcgg cggcggaact cctgatctag gtttctttct 300
ggaagtttct gtatatgtaa ggggttttgg caccgagaac aagtcagggtg ggtctccggg 360
ctgtccacga ggcagggggc gcgccccca cctcgtggg cagcccgga ctcttctggc 420
ccaactcttt tcttctgggg gg 442

<210> 8342
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-F10
<400> 8342

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gatcgtggag atttgggacg ccatggattt gggaggaggg ttaggattag tggaactgcc 120
gtaatgtgaa tggacgtgac gactaggagc aaaccacat agtattgaag gacgtgcggg 180
gacgagtagg agcgaactgc cagcgtgcga atggcagggg agtggctttc cattctccca 240
tgatacgggc ttccgagagc ccttggatct gagatcgaac ggttgcatgg tgtgattcta 300
gacctatggg tgaatatcct atcctgaagg gttattctgc aaattttcag caacttagca 360
tgcgaccggt tgatctcaga tctaagggt gccagtagcc cgtatcatgg tcgcgcctac 420
cacgaccgtc gcg 433

<210> 8343
<211> 438
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-F12
<400> 8343

cgggtcgacc gcgaaggaa gctcacctac ggcggctact ccagcatggt ggtggtgcac 60

gagcgcttcg tgggtccggtt cccggacgcc atgccgctgg acaagggcgc gcccctgctg 120
 tgggccggca tcaccgtgta ccccccatg aagtaccacg ggctgaacgc tcccgggatg 180
 cacctcggcg tgctgggcct gggcgggctc ggtcacgtcg cagtcaagtt cggcaaggcc 240
 ttcgggatga aggtgacggg gatcagctca tcgccgggga agaagcagga ggccctcgag 300
 aggctaggcg ccgacggctt cgttgtcagc aagaacgccg acgagatgaa ggctgcatg 360
 agcaccatgg atggcatcat aaacacgggtg tctgcaaaca tccccatggc ccctctcttc 420
 gggctactca agcccaac 438

<210> 8344
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-F3
 <400> 8344

ccgggtcccc ggggagcaca aaaaggcgga ggagcacaag aagaaggacg gggagcaca 60
 gaaggacggc gagcacaagg agggcatgat ggagaagatc aaggacaaga tcagcggcga 120
 cggcaagaag gacggcgacc acaaggagaa gaaggacaag aagaagaaga aggacaagaa 180
 gcacggcgag ggccacaagg acgacgacgg ccacggcagc agcagcagcg acagcgacag 240
 cgactgagcc agtccggcc cgcgctccgg cagcgtgcag tgtaggcgag atcgatgatg 300
 aacacttggg agaagtgtga cagacatata tggtgcaggg tttggagcgt gtggtagcat 360
 atgtatgtaa tgcgtgacat gcctcatgga tcttgtgatg tataataatt agccggccgc 420
 ac 422

<210> 8345
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-F4
 <400> 8345

tacggtcgta attccggggc acgggaaact aaaaatctca agtacatgga aggatcttac 60
 agtagggtgt tgcaagactt ccaactgtga ccagctgcag ttggttcagc aaaaatataa 120

atctctggag catcaacagc aaaaatataa atctctagag catcaacaga aagaaaacga 180
tagaaaatag actatttgag cagcagctgg tgcggtagtc tgagtagaga tttcatggta 240
gcgaaggaac ttgccgtat aattgaggcc aacttcacag aaggatcaac acccgaagac 300
aacaatctga atcgtatttc tcatagataa gatatgttgc taatcatctt aatgatacaa 360
ctttacaatg agacattgta caaaaaacaa acaagtatct ttggagtctg gatgatgata 420

<210> 8346
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-F9

<400> 8346

gacgggcata tacatacaga cagacaggag agctgccttc cgagccttgg aaaaaaggca 60
ctgctgcctt tgctctgctc atatccggac tcagatgata tgaacatgga ttgcattgca 120
gcaggcgatg aagaggccaa catagtctcg gacttttggg aaaccagaag aggttattag 180
catgtaggag aagaggagcg tgtaaaggaa actcaaggca atgcttgtat gtaacataca 240
aaaaataaca agttgtaaaa gcggcctcaa gttttcaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aagcgggctc cccaaagggt tcaagctt 398

<210> 8347
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G1

<400> 8347

acggtcctat cttcccgggt cgccgggtcc agaactccct caatagcccc tgaactagac 60
tttaatgatg atgtgttcgg cgtgcagatt gtcttcagca ttgcaaggca gggtctttct 120
ccggatactc caatgcagtc ctccacacat aatagetgta tccgggtccg ttaaataatt 180
acagccttaa gctgcaaggg taaaaatatt caaaacaaag taagtgcgat ccataagcaa 240
tttttccgggt gaggcattat gtcttgacct tgtagtatt ctgaactgtt ttacaatcct 300

cgcttcgtgt tttgggttgt ggctaggaat taagttaatg gcaaacaaac cgtttttttg 360
gcgtgtgttt aatttctaac cctaagcggc tgcattggtt aagcctgcaa cactgcacgg 420
atgcatccat tacattcctt ggcttataaa atttc 455

<210> 8348
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-G10
<400> 8348

cgggttattt gatatttttg tctttttttt caaaaatata ggagcaattt aagacatatc 60
aaacccatgc ttcaacatga taaattagta gaaactatga tcaaactata gtagggggcca 120
aaacctgctg attacatata attagcaact acaaattgtca tttaatgaca ttttcaacct 180
tgacattggc acatatacta tgcacactag tagcaggcgc atctagacat cctcatcctc 240
ctccgcggac gaaatatcat ccatccacac ataggggtcg gactcatgag ctgtagccac 300
aatgtttgct cataatcgat ggtatctgag atgtatttga tgatgatgat gatttttctt 360
ttggatgacg cttggcatga ccgcggcact gaggtgtcct gcgcattgga cgtacgtgaa 420
gaaactcggg gct 433

<210> 8349
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-G12
<400> 8349

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gtgtgattcc gatgcccaca gggaaatgag atatgtatgc gtgtgagaga gattgcacaa 120
ttcattcacg tatcactatc tagcgatcgt ggacgtgcat cgcttgaaca taagtcaata 180
tctacttcgt atcgtggcca aaggtacaat atcgattcaa cgctataaag attggacact 240
cacatatcac atttttttct atttcaataa accttttcag ttgtgcatgc caaagttaca 300
gtgatgtttc ttcaaacaac caatgtagct atcatgtata tgcaccattg ttactcttgc 360

attcaaattc attagtcttg gatgatttat gtttccattt tgaagtaata tatgtaatat 420
tcatatatga at 432

<210> 8350
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G2

<400> 8350

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gatgcccgcc cacttgatgt acgacgggca ggacgacaac ctgtttgagc acttcagcgc 120
ggtggctcaa cggctgggcg tctacaccgc catagactac gcggacatcc tcgactttct 180
ggtgcagagg tggaacgtcg ccaacctcac tgggctgtct ggggaaggga ggcgggctca 240
ggatttcttc tgctcactgg gaccaaggtt caggaagctg gaggagcgag ctcagggcag 300
ggcgaagcag ttaccggttg ttcctttcag ctggatccat ggtcggcaag tgcaactttg 360
agtgcatttg caaaacaatt ataagacgat ttgttcttct tattttcaaa atatgaagca 420
actgttga 428

<210> 8351
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G9

<400> 8351

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ttaccgtgag gaccgactgg aacaaagagg tggccgaagc gaggaaaaga ttgaacaaat 120
gggaaggcaa caagatgcct ctattagcag gccagaatg aaacagtgga tcctgtatat 180
gatcaacgga aatgtggtcc gttcgcaagt tgatctccct aaaatgtgta aagtgcattg 240
ttcatcgtgc aattcaccat tgaaattccc tacttccgtt ctgctattcc cgcttcgcaa 300
gcacggtagc agcggcgatc ttgtcatggt actagcgagt aacgggattc tatggcgatg 360
atagattagt gtggatgaga tcactttttt tgtgtgagat atcaatattg ttggactgca 420

ctaagggtac

430

<210> 8352
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-044-Q1-E1-H1

<400> 8352

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gcagagcctc gaacgggtccg agaatgagct cggccttgcc aagaagtagc tccaggataa 120
ggaaggtaag taatacctta tgaaagtagt accttataga aaaggatttg gttgcaaaaa 180
atgacaagaa taacgtgggt attgcagggg ccacgaatga ggtggcgacc ctgaaggaag 240
cgggtgtccaa ggtcgaaagc agtgcggcct tggagcgcac cgagcgagag aagcaggagg 300
cgcggtggc cgaggtgcgg caagagctcc aggctctcgt ggaaaaacat gagaatttgg 360
aaggttactc caggggcccg agagtccgag cttgcctcgg ctcttgagag tggcaaagcc 420
gcta 424

<210> 8353
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H10

<400> 8353

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atggtttata tatgcctttg cctgtaccta gtgtgataga ggcggtgtgt cccgatcttt 120
cgatgagatg ataaccatcg atttggtgga gacgactttg acgatccgac tacaacgtg 180
caacgacgtt gtgccttagc aatcgctaaa ccaactccga gaggttattg accacgctgg 240
agcacgatca acctgaccac gaaggtctat tctgcaagc aatcgaagaa caagcaagaa 300
tatgataaaa gcaatctgaa tatcgcgaa atgtatgaag tattgataat ggtggggatc 360
cgaaaagtgg tcttggtctg gtcgttgga acaaacgaag cacacgaagt tgcaatggct 420

aacttt

426

<210> 8354
<211> 349
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H2

<400> 8354

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accaagggcc acgaaattcc cccctcttcc tccatatata cagcccttag ggcacgttt 120
agaccttggg atttgtttag ttaaaagtta gccattgcaa cttcgtgtac gtcgtttgtg 180
tccaacgacc agaccaagac cgcttacgga tctccaccat tatcaatacc tcatatatat 240
ttgcaatatt cagattgctt tatcatattc ttgctcgttc ttcgattgct tgcaggaata 300
gaccttcgtg gtcaggctga ccgtgcttcg ggcacgtca gtaacctca 349

<210> 8355
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H6

<400> 8355

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gggggcttgg tttggatctt cattttgttt ttcccttgtt caaatttgtt taggttcttt 120
cggccactgc catggttggc attggcaatg ctggttgatt ggtttggatt ggtttgtgag 180
aggggcaagc gatgagcaaa gataagggtc gggctgagct ttcctaagga gaggagagct 240
tactggagc ccaattccgg tgcccaaagc gagcacattt cctgtgagaa attcacccca 300
aatctgcact gtttttggtg cgccatagtg gtggatgcca tcttaagttg catatggtga 360
gatgctagct gttggatgca gtagtagcac tgaaaggctg ggggtttggc cattgtttat 420
agagccaaga aga 433

<210> 8356
<211> 385
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A1

<400> 8356

cggggtatttt gaatttcaag gaatttaatt atgataattg atctttaata gattgtattt 60

ccttgctgca atccgtgttg aattctcctc atgcttatag ccaaaataaa gcttttacta 120

aacatatcgt tgatgctttg atgcaatctt atgaagaaaa acttgaatta gaagtttcta 180

ccctagaaaa ctttatgatg agtgggaatc cactattaaa attaaaaata aaaatcatga 240

aggctatgca ttgtgtgatt tgggtgctag tgtttccacg attccaaaaa cattatgcaa 300

tgtgctaggt ttccgtgaat ttgatgattg ctctttaaac ttgcaccttg cggattccgc 360

cattaagaaa cctatgggaa ggatt 385

<210> 8357

<211> 156

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A10

<400> 8357

aggagacgtg gttttgttcc ttccagttt tcaactaggat agagcacttt catttgcagg 60

ctatttttaa cagcattgtc tcccaaatag aacagccaag tcacattctt tgcaatttat 120

ggattcacat ttacacctat ttttcacagc ccatgt 156

<210> 8358

<211> 257

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A12

<400> 8358

ctcatggggc acttatatta ttttgagagt cttctagagc agcatggtaa tttgctttgg 60

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tcatataaag tgcattgaat actatgagaa gtttgctact ttatgattgt tttgaggtat 180

gaagatggtg atattagaga catgctagtg gagtaattgt ggatttgaga gatacttgtg 240

ttaaagtttg tgattcc

257

<210> 8359

<211> 262

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A2

<400> 8359

gtattttgaa gcaaatggca tttaattagg atactttatc tttattagat tgtatttcct 60

tgtctcttcc cgtgttgaat tctctccatg cgtatagcca aaatatatct tttaacaagg 120

gtggcggttg tgctttgctg caatcttatg aagaaaaact tgaattagaa gtttctactc 180

tacaagaatt ttataatgag tgggaatcca atattataat taatattaaa aattattatc 240

gatatgcatt gtgtgatttg gg 262

<210> 8360

<211> 280

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A5

<400> 8360

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caacatctgc agcttcatct cggagaccaa ccccgggcac gtgcgggggt gggagaccaa 120

ggacagccag ctgacgatgg tggcggacca cctgaagccg cgggcggtgc tgatgtgcc 180

ggagaacaag atgatccagt aggtggtgtt cgccagctac gggaaccgcg tggggatctg 240

cggcaactac acgtttggta cctgccacac gcccaaggcc 280

<210> 8361

<211> 350

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A8

<400> 8361

cggggaaaaa tatgatgaat gacaaggcac tggttcgcaa cttagctgca tgtgaaacta 60

tgggctcagc taccaccatc tgcagtata agacaggaac actaacacct aatcatatga 120
 gtgttgtaa gacctgcatt tgtggaaata tcagagaggt taacagtcct cagaatgcgt 180
 ctaagttgtg ttcagaactt ccagaaaatg ttgtcagaac tcttctcgag tctatatatta 240
 ccaatacagg tggtagaggt gttattaacc aagatgggaa acaccagatc cttggtaccc 300
 caacagaggc agccatattg gagtttgcaa tgtcaatagg tggaaacttt 350

<210> 8362
 <211> 275
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A9

<400> 8362

atttgcctga cttctggcac gtttggcagt ttatcacttt tattcaccaa cgcagactct 60
 agattcatgt gaaacttgct acacactcag ataccttggc atggggccat ggttttttca 120
 gcagttaagg aatgttcaac gagtttgaca taatgttcac acacttacia ctttttcggc 180
 acttattcga tgttctgggt tcaaaagtct aacctatcca cagctccatg ttgggggaaa 240
 ctccccctgg attggtcaca gttttttcgc cattt 275

<210> 8363
 <211> 325
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-B1

<400> 8363

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 ccatccatct acctacagtc atatggttag tcttttagata gcagagggca tttgggcaca 180
 aaagaagacg actattaccg tgccagtgtc agaagagctg agtggtgcaa ggaagagtag 240
 cgtgtccgtg acttttggtc gttccgtcgt tactttttct ctgtgttcca gtcgtcggct 300
 taagtttggg cggctgtcgt cgtcg 325

<210> 8364

<211> 391
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-B10

 <400> 8364

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 actgtcgtcc gcaatgattg ggtcggggccc cagatgacat ggggtgggtta gcgtcgccgt 120
 gcagcatcca ttctaagtta gtcccacctc ggtcgccgaa ggatgtaccg atcagtttat 180
 atagccgcct ccggtattcc atgcatggtc atatcttaaa ttgttatata cctctatata 240
 tctgctccgc aatacactat caggcaatga actgccctgg cagttaggta aagtcattat 300
 acaatattaa atatgtttac tttgtcatTT tttttaacct tccaactgtg aaacattttt 360
 tttgaaatat tgcctcccaa caccattttt t 391

<210> 8365
 <211> 192
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-B12

 <400> 8365

 aagctagtat atgatgatca tgaaaacgac atcctccttg ttggagatga cccatgggag 60
 gaggtttgtga gctgtgtgaa gagcatcaaa atattatcat ctgttgaagt gcaacagatg 120
 agtttggatg gcgaccttgg cggtatccct tcacaaacac aagcctgtat tggttccgat 180
 gatgcaaatg ca 192

<210> 8366
 <211> 354
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-B4

 <400> 8366

 agccgcgcac gagatccagc actcgagggg atcaacccta ggcgcgggat gcgggtgatc 60
 cgcctcgtgt aagaggcgaa cctgtcgccc ctcatggtgt acttcatggc caacaacgcg 120

tgcttgacctg accacttata tgcacaccac gacaagcccc tcgaggagac agcagtccca 180
 cgtcttgacct tgatctgatt tcgttggcct gtgggtcaact ttctagccca tcgatacatt 240
 atttttttcc attacattgt tgccgttcat atcgcttagc ttctgcctcg gttcgttgct 300
 tcattcagaa ctatgcctct tggtcgcatg ttcttctcaa tgcctgccc ttca 354

<210> 8367
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-B5
 <400> 8367

gggaggacgg agacgggtgca ctctgacaag atcacgggtgt ggttcaagaa gctcagctat 60
 gggctcagcc aggagcaccg cgaccccgctg ctgggtctgc gtcagggtat acatgggctg 120
 caccaccatc cagctcgacg agctcgccgc cgagaccgcc gccgcgctca cggcctccca 180
 gcctgactat gcctccctcg cggcgaggat tgttggtgcc accctgctgc caagtgggaa 240
 tactctgtgt ggcgcttgct agtagagagc attctggtac aaaggtacac gaactaatag 300
 ggaaacttct gtcattttct ttgggtctctg atccataaat ggtcc 345

<210> 8368
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-B7
 <400> 8368

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 cgctcaatac aaagaggctt gatgatgata cagagaatct tgctcatgag cgtgtgccgt 120
 cggagctgaa gaagagcatt atgcaggcta gaacggacaa gaagctcaca caggcacagc 180
 ttgcacagct gatcaatgag aagccacaag tcatccagga gtacgagtca ggcaaggcta 240
 tcccaaacca acagatcatc ggcaagctgg aaagggctct tggcacaag ctgcgaggca 300
 agaagtgaag ctgcgtgcat ctgacaggag tcgagtcttt caagagagga tcttggctgg 360
 gcaagtttac cgctaaataa agcttgtcta ctaaatacatg cgact 405

<210> 8369
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-B9
 <400> 8369

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 gcccggtgag attttacagt ttttcgcagc tttgatcgag gctgtgcgtc agacctacag 120
 tccacgaaaa agccacagaa aaattagggt tagttcatca tatccgaacc aatctgagcc 180
 tttgcataaa ctttttaggg ttttgctttg ttgaaattgc ggctgcatcg tcctgtctag 240
 ttgctgggtct tagagtctag tcttttagag tttcgagttc tggtcataag ttgtcacgcc 300
 gccgcccac catcatcatc gcccggtcca tctaccacca ccgcttatcc gccagcgctt 360
 cgaatccgta tccatatacc accacagct 389

<210> 8370
 <211> 299
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-C1
 <400> 8370

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 gacggcgacc gaggaggctg ccgggccgat caaacacgat ggcgtgggcc ataacgaggt 120
 tgtccccgat cgggacgacg gtgtggcatc gacgagcgac accatcatcg tcgtcgagga 180
 gattaggaat ggccatcccg tcgagggtgc gatcgcgctt accgtcgagg cgggaagaga 240
 ccgtctgcgg tgcgaggatt atgaacggtg gtcgggtccat gcgaatgaag acgacgcgg 299

<210> 8371
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-C10
 <400> 8371

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 gtttgccaca atcatccttg ctgtacacac attttgagag agtcatacat gatttagaat 120
 ttgctagaat actcattgtg cttcacttat atcttttgag cttgatagtt ttgctcattg 180
 tgcttcactt atatctttaa gcttgatagt tttgctcatt gtgcttcaact tataatctttt 240
 gagcttgaaa tttttgctct agtgcttcac ttacatattt tagagcacgg tgggtggcttt 300
 gttttaaaga atacattgat ctctcatgct tcaacttagat tattttgaga gtcgttaata 360
 ccatggtaat ttgcttaatg tcaaaatact tgggtattcag gatatatgaa acttt 415

<210> 8372

<211> 326

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C11

<400> 8372

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 tgcattgcaac gcttgccccc tgtacatgag ataccgatcg aggtaaacgt aatgtgtgta 120
 cggaacgtgt gatgactgat gcttgcatga ttgtttgcac ttcgctgctc cgttatcacc 180
 ctctgttctt ttctggagtt ctcttttccc tggtaaatga ttaagtgtat gttgtgagtt 240
 gtgacattga ttaactggaa aatgtatcat tcagatgctc attaactgag tccgcgttgc 300
 taatactact ccattatctt atgctc 326

<210> 8373

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C12

<400> 8373

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 ttatactcc cctcctcca caagcatcaa tccatggctt gctcgaaaca acgagtgtgt 180
 ccaacattca atgggtcaca gggggagttt tctttaatta ttttgatttg ctttgatctt 240

tttggatcat gggactgggc atcccgtta cgggccctt ctcgtgaatg aggagcggag 300
tccactcctc ttgagaataa cccacctagc atggaagata taagtaacct tagttgcacc 360
tgagctgctc cagcatataa cacagaattt catttga 397

<210> 8374
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-045-Q1-E1-C3
<400> 8374

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tcttctttta tggggttttt atgatgttat ttttttgttt ttttgttttt ttttttttct 120
tttggttttt tttttgtttt tggttttttt tttgtttggt gttttttttt ttcttttttt 180
tttttttttt ttttttgttt ggatgatttg ttcttttttg tttgttggtt tgtttttctt 240
tatttttttt tctttttttg tatttgtttt ttttttggtt tttttgtttt tttttttttt 300
tagtttggtt tttcttttgt tttt 324

<210> 8375
<211> 245
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-045-Q1-E1-C5
<400> 8375

cgggccccaa cagagcgtca cagcgaagta tcgagtgtcg tgtaggacaa ccatcgactg 60
catgtggcca aaaaaattta tgtatgaaag gggtgtgtaa tgttttgaat aacaatttgg 120
cgagtcta atgtggcatcgg cctgcctaac aaaacggcca acccacacca tggctcacia 180
ctcgtactgt actacgacct agccaccacc cccacacgca cacaccacaa cagcacatcg 240
taaca 245

<210> 8376
<211> 261
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C8

<400> 8376

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gtcaaccaag ccatagccta tacttgactt gcagttgcac atgtaagctt ccaggcatga 120
ggtagtcttc cctctctttg agtcagggtg aagctttccg caagatgtca tggcgctctc 180
ccatgcatcc cggccatcta ctggtttctc cagggtgctc gtcaaccgtc cttcacccat 240
tactctctag tgaactcttg t 261

<210> 8377

<211> 301

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C9

<400> 8377

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cgatccatat accgtttcaa aggttatatg cgtgttccat cctaagcata cttatagtct 120
tttagataca acttttgtga tatttttagct taagcattag cataggactg gccactgatt 180
attgcagttt ggaaatatgt tgaaagaaaa ctttactgtc aaaaaaccct ccaaataaaa 240
taggatgcat tgttaaattg actgtgcctt aacccttggt tggataaac ttcattggatg 300
a 301

<210> 8378

<211> 181

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D10

<400> 8378

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aagcttaaac cctagtttat gcgctattcc gtaaggggct gatttggatc cacatgttta 120
atgctatggt tagattttat ctttaattctt ccttcgtagt tgcgatgctc gtcagagggg 180
t 181

<210> 8379
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-D11

 <400> 8379

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 agcagaaggt ctccaccctc cagaacgaga acaacacgct ccgccagata ctgaagaaca 180
 cgacggcgca cgccgggaag aagccgagcg gcggcaaggg gggagacagc ggcaagaagc 240
 accaccacca cttcggcaag ggctagtatc aagaccgagc ttctctgctg cgacgatggg 300
 tgctacgaac caccacaagt ctgcccattc gaccattgtt aggacactgc tgttgttgtt 360
 tgctgccgca gtttgacgct tggcttgtct tcttcttttt cactcctctc ttctccac 418

<210> 8380
 <211> 386
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-D12

 <400> 8380

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 agctgtgtgc ggtggtgtca taaggagcct atccatctcc actagaatta tcccaagttt 120
 cacttcacat cgtgatgttg ttttaccttt ttctgtaat ccggtggata ccctcccccg 180
 ccgggctggc ctggttacc tatgccattt gttccggtgc aagggtagcg agctccacct 240
 ggtgcgtaac ctacccccg aggattgcct ccaactcggt tgtcactaga acattaccaa 300
 gttaacgtgt gctggttatg ccgtcgatga tatatacacg aacaaagtct tcaaagaaag 360
 gaaaaaaagg taagggtggt ggcttc 386

<210> 8381
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D3

<400> 8381

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttggtt 60
tttttttttt tttttttttt ttttttggtt tttttttttt tttgggtttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
ttgttttttt tttttttttt tttttttttg tttttttttt tttttttttt tgtgggttgt 240
gttttttttt gtttggttgt tttttgttgt tttttgttgt ttgttttttt ttatttttgt 300
tatttttgtt gtttggttgt ttttttttgt tgtttttttt tttttttttt ttttttgtgt 360
tgtgttttgt tttgttttgt tttttttttt ttttggttgg tttttttttt 409

<210> 8382

<211> 224

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D4

<400> 8382

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ttagaaaagt agtttccttc tactactaaa cattgggtctc acgggggtttc gggcgagtag 120
agggtctttt ggcgcttcgt ttgatatttt gatacagaag cagtcacatt tagtgcactc 180
atcagctttg aggtttggtc tatactgaca gcggtttact ttga 224

<210> 8383

<211> 297

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D6

<400> 8383

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ttttatttta ttttggtttg cttgctgttt gtatagcata ccaagatctg aaattcgggg 120
gtgttaaata ttcttcagat atttacttaa ttattcgatt acacattgga tattaacgat 180
atgactttcg gactagtgtg tcgttgctgc tagtgcactg actcatatct ttttataaca 240

ttgtagttgt cattatttat gtagaaataa gcataatgct catgcttaaa ctagaat 297

<210> 8384

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D7

<400> 8384

acgggcacaa ttaacttccc cttcgtgctt accgaaggat gattgctatg atgattgtta 60

tgatcccggt gattctcttg aaatatccct ttttgatgat gcttgctatg cttgtgggcg 120

ggatgccaat atgaattatg cttatggaga tgaacttgct atagttcctt atgttaaaca 180

tgacattgtt gccattgcac ccactcatga cagtcctatt atctttttga attatccaaa 240

ctacgctaga tcagacaagt ttgtgcttac taaggattag attgatgggt ttcgtttta 299

<210> 8385

<211> 175

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D8

<400> 8385

acgggatcaa tgaagttact gtcttgcttt tctcttccga tcgttctggt gcataacttat 60

atgttgctta tgtattgtct gtgatttggt acgaacgttt cgtttggtta gtgcattggg 120

gtgcgtgcgt atgtcgtgtg taatggtaat gttcgcgggtg tctacgacga ctggg 175

<210> 8386

<211> 308

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D9

<400> 8386

tatccatcag gcaaggatat gatttggtat gtatatgtgt tggtatgctt gtcgaaagta 60

ttttcatatg tgtgtgtata tatatatgtg aaattgaatg aatttaaaaa aaaacagaga 120

aaacatgggc tatacatgct ctttgccgtc tgctgggtaca cagcaaagag ctttgctgtc 180

tgctggctga cagcaaatat gccatgtgtc agctacctgt ccaacttggg gcaataagct 240
 ggctatttgg atgccttgct gttaactggc aaacggcaaa acacgccgtt aaccactaa 300
 ccgcctgt 308

<210> 8387
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-E1
 <400> 8387

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 gggatcatga cggtgccatg ggtgcggaat ggctaaaggc attcaagggc tacctcgggg 120
 accgatgac catgctgctg taagagttct ttttctctgc tgtaaatacat gatgatggga 180
 gcagtttttc tgtgtagctc tcacaaatat agaccacact caccacgcct gattttt 237

<210> 8388
 <211> 227
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-E10
 <400> 8388

atagtcctca tcagagatct cgaggactcc acatagtact atccgagcct taacctggag 60
 caaacttcaa gtttttagga cttgggttgaa catagggggg gtgtccttac atgatttaac 120
 catgaccact atttcgttcg ccaagaaaat ctttggcgac aaaatgcact gaagactcga 180
 gctgtcccat tgaactgttc cgatatgttg gcattcgggg aaaattt 227

<210> 8389
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-E12
 <400> 8389

ctgggtgcaaa tcaggcacga gctcctcagg aagaacgtgt cccgggtgga cctggagacc 60

ggccggaacg tggagatgcc cggcctagge accaacgcgg agcagctcgc caagtctgca 120
aagcacctgt ccgacgagcg gggccggcgc aaaaagggtgc ttcaaattaa ctaacagctg 180
gcaggccggc tcgctctact ttgttgagtc ctgctcgttt ggtggatggt ttccattcag 240
tttttttctt cttgtacaca gtgatgtaat atttgtacag ttatgtaata atactgtgcc 300
acatttgga aatagattaa ggggtgtcca tgttttgccg gagcaagtgt tgattaaaaa 360
aaaaaaacca actct 375

<210> 8390
<211> 222
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-E5

<400> 8390
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ttggggtttt ctaatgttac cttattttat ttataactt atctgggtgag tatttttagg 120
ggtgtgctta cgttattgtg tttctgaatt tggatgatt tgtggttgtc tctttggttc 180
gtttgttgta ttttttcggt ttagttatth ttgttctttg gt 222

<210> 8391
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-E7

<400> 8391
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ctgcgccctt gcacctagt taactaagct gcgccgggccc ggtcgggggcc cggcaggagg 120
gttggttttt gatggatgga cattcatgga ctgtaatgta tgtgtgcgac tagctggttt 180
gaactcgtga gctgctgctg ggtatagtga gtcgtcttcg tttccagagt aataaagttg 240
gttcgtccgg tc 252

<210> 8392
<211> 317
<212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: LIB104-045-Q1-E1-E8
 <400> 8392

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 ccgaccagcc tcaacttgac cgtgcctcta gcaacgaagc atgcgcgagc atgccgcttg 120
 ccgctgggtga tgatcaagcc aaactctcca gtcggccact cctctatcca aaattgccgc 180
 ctccacagag ctgcgcaatt cgcccgttgc tctcttggcc cgatcttgca tctttaactt 240
 tgctttctctg cttgtttact ttttgaatac ctattcgta aatttgcgca cttccacca 300
 gtggggtgtg tatatat 317

<210> 8393
 <211> 254
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-045-Q1-E1-E9
 <400> 8393

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 cgaactaatg attggaagca tgataccctt caacgtcgtg tccataatgg cgttgattat 180
 ttcatattta tgcatattta gtaagatgat gcacttttct gggaagaaac atactttgat 240
 ttttggtcga tatc 254

<210> 8394
 <211> 226
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-045-Q1-E1-F1
 <400> 8394

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 gagtctagcc ttgtaaagc cgggccctcc gtatgtggga attcaaccgc gagggacgag 120
 gagctattca acatttcctc ggcattgatgc tcgaacaaat gtacaaatcg ttctctggac 180

cccaaataaa gtgtccggat acctctaagg acgtggggtt gagctg

226

<210> 8395
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-F4

<400> 8395

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tttttttttg tttttggttg tttttttttt ttttggtttt ttttggtttt ttttggtttt 180
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tttttggttt ttcttttttg ttttggtttc tttgtttttt ttttggtttt ttcttttggt 360
ttttt 365

<210> 8396
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-F7

<400> 8396

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cccgggtactc cgggtatactc cggatttcac ccggaaccat tacgatgtcc aaacataggg 120
ggcgagtata tcgatcttta cgtctcggcc atttcgagac tcctcgatcat gtcggtgatc 180
aatcctgga ctccgaacta ctttcggtac atcacaacag ataagatcat aataccgatc 240
gtcagcgaac gttaagcgct gcggatccta cgggggtcgag aactatgtag acatgaccga 300
gacatgtctc c 311

<210> 8397
<211> 151
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-F9

<400> 8397

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aatgcatgca tgcattgtaca ttcaattcgt tcactttcaa ggtgtatgat ttggactagt 120
atttcacgtc gttgtttcga aatctctcaa t 151

<210> 8398

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G10

<400> 8398

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acgggctgaa tcgctcccgt gatgcaacgc ggcatactga gcctgggggg gctcggtcac 180
ttctacgtca atttcagcaa ggccttcggg atgaacgtaa cggatgatcat ctcatcgacg 240
gggaagaatc acgaggtcct cgataggcta ggcgccgact gcttcgttgt caccagaaag 300
gccgactaaa tgaaggctgc gatgagcacc atggatggca tcatacacac ggtgtttgca 360
aacatcccca tggtcctctt cttcgg 386

<210> 8399

<211> 215

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G11

<400> 8399

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tgaatcctgg ttcgggggct actgaggag tcctggatta ggcggtcctt ggacagccgg 120
accatatact ttggccggac tgttggaacta tgaagattca atattgaaga ttttgtcccg 180
tgtccgggtg ggattctcct ttgcatggaa tgcaa 215

<210> 8400
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G12

<400> 8400

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atgagaaaag ggaggaatct ttatcctctt atataggcag tgtatatcaa acgccccccg   120
gccgcgccgc tcaagcctta aaacttgccc gttcccatgg ggtcgtgcga atggcatggc   180
tatattaccc aaaccgtatt gatgaggatc ccgcaataag tggacacgat ctccattttg   240
acaagacatg taaatagagg ccgcgcctcg agacgctaag cgggaggcga aaaacgggtcc   300
gaaatgctaa agaggccaca tgtggcgctt cgccgaaaag ttgtgagttg acgggcatta   360
ttttg                                           365
  
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<210> 8401
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G3

<400> 8401

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ttttttttct ttttctttct ttttgtcttc ttttttttct tttttctttt tttttttttc   180
tttttttttt tgtttttttt tttttttttt tctttttttt tttttttttt tttttttttt   240
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tttttttctt ctctttcttt tgtttttgtt ttctcttttg ttttgtgttt tttttttcta   420
ttttttttta tgtttttctc tgtttttctt tctttttttc ttt                                           463
  
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<210> 8402
 <211> 99
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G5

<400> 8402

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gatttttgtt tcagttatat atatctttat ccctctcat 99

<210> 8403

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G6

<400> 8403

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agtgagtgtg catccaactc gcttgctcat gggggcctag ggcatttgag gaagcccatc 120

ttaggaatat aactccaag ttccataatg aaacattccc actagtataa agcgacaact 180

tatgagactc actacatgaa taacaagggtg ctattttgaa tcacattata tgagattcac 240

tacatgaaga acaacgtgct actttgaagt acatgtgttg aagctacata ctagcattgc 300

cccttttttt tcgttttttg gccttttttg gcctttcatt ttttctctgt ttgctt 356

<210> 8404

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-H1

<400> 8404

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ctctcgtgct cttgatttgg cagcatcttg atgtaccacg agctttgata ctatagttgg 120

atcatatggg ttttctcccc ctctaccttc ttgtgatgaa ttgagtttta cctttgaggt 180

ttcactatta tggatttgag aactcttgat gtatgtcttg cgtgggatac cagtgggtgac 240

aatgggggtat tctattgatt cacttgatgt atgttttggc acacaactgc ggattcccga 300

ggtgacattg gggtaatcta tgcataatgg ttgatgcacg tgttttcctt gtttctccta 360

tagaaagctt ggggcactct ttgaagttct ctgtg 395

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 <223> Clone ID: LIB104-045-Q1-E1-H10

 <400> 8405

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 tgacaccatc tgcgactttt cagtcattta ccgatttggt tagaaacctt atcgcgcgtc 180
 aaatggtcca tcactacaaa gtcgaactcg gaa 213

<210> 8406
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 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-H11

 <400> 8406

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<210> 8407
 <211> 77
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-H2

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 cccgccctgt cccgttc 77

<210> 8408
 <211> 191

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-H6
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 tcattttctcc c 191

<210> 8409
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-H7
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 tttgtagtta tatctaattg tttgtaatgt ctggttgtat gaatattatg ttctatctaa 180
 atttgatctt gtagttccga taacagagta ctaaaataga gtaggcataat gtctcgtaca 240
 taagtacata gtcatttttc tcatacatag aatagacata agtctcacac agaaatagat 300
 ggtaatgtct ctactgatag atagaagcgt cagtgcgcac gtctggcctg gcggggaggc 360
 ggatctggaa tcagggaacca tcccaacctg tcgggtgccc taacatgacg atgaagaatc 420
 tc 422

<210> 8410
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-H8
 <400> 8410

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 agctctgggt tgcgagaagc ataaacccca accttcccca aatgggacaa aaaatttacc 120

acggcatggt gatgccgctc cataatagca tgccaagttt catgaatttc agaagagttt 180
 tggatttact agaatttaaa aaccaggcat ctcaaggttt tgccggcaat caacggtgcc 240
 ctggtgtttg aaattcattg ccatttcttg catgggacct aagcacgtac ccaaggacac 300
 agatttgatt tttcaaccaa ttgatatgca ctggagcatg tgcattgtact tcaaatttga 360
 attatgcaca taaatgcact gaaaaccaa tttaagcatt aaaatg 406

<210> 8411
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A10
 <400> 8411

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 ggcgagctca tcatgcacct ggagtgggtt aacctcccc caggcatgtc gcggtgattt 120
 gatttgattt gcagagggag gccagctatt gtctgccttt tgtgatcgta atgttgcttc 180
 ctctatatat gagctatgac aataattaag cgatgcctat ctcatcttt acataacacc 240
 caccgtaatg atttgtggat ctaccagga tggatgcgtat ataatatgag caacgtcgtg 300
 gtgagatccg cagatcatca cagtgggtgc tacgtaaggc atgtgataga cttatgctgc 360
 tgggggtaat gcttgctttc agttttgggt ctgcatatgt tgtatggcta ttttaataca 420
 aa 422

<210> 8412
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A12
 <400> 8412

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 gacaccacac aacagatatg ctgctgtcag cagtcctctc taaatagtca ctgcaattat 120
 cgtataagta catcattgct gctgtcagca gtgctctcta aatagacact gcaattatca 180
 tgtacatcat tgctgctgca atgaaccatt aagaattatt taaaatctag cctaccatct 240

gcgttgtcgt caacagaggg ttgaggcgga gttacaaaat ctgtatgaga aaccgagggg 300
 ttgtccgagt cagcgacatc tttgttatct tcagagctgt cagaagcagc tgagatggcg 360
 tcacctgatt ctgaatgtgt tctgtccaca tatgcttcag gtaaggagct ct 412

<210> 8413
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A3
 <400> 8413

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 aacaaaaggg ttttggatg atcaaaaaat tggcccaaaa agaagatcac caaagtgggg 180
 tacagtaagc actatcatag gacgtgaatt ggatgctatg atcaacttga aacgtgataa 240
 ttgttttgag atatggacgt agtgatatta aagtcatgct agttgggtga ttatgaattt 300
 aaagaatgct tgtgttgaag ttatcaagtc acgtagcatg cacgtatgt 349

<210> 8414
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A4
 <400> 8414

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 tatcatgcta tggtaggtt taccctaata ctctgtatgt aattgcggat gcttgaata 180
 cgggttaatc atacttggga tgcacgtcca agaaaggaca gtattcaagc actgggtccat 240
 ccacatatca aattatcaaa ttaatgaacg ccaatcatat gaccttgatc aaatctagct 300
 tgacgataat tcccatgtgt cctcgggagc gttttccttc atataagaac ttgtatcga 360
 ttgtcctttg ctac 374

<210> 8415
 <211> 294
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-A5

 <400> 8415

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 gatgtgtgct gcaggcagat ggtggggtaa cgtgggctcgg gcggataggt tcgtgtcgtg 120
 tcccattgcg gacgactaac aggtgctgat acgtgggggtg aagcatgacc tagggaaccg 180
 cttgtccggc cgtgcacggg gtttccaact tatcatcccc atcgtcctga attatcggtc 240
 ttctccgctt tcggttacat tggggatata ggctgtcatg atattacatc tgga 294

<210> 8416
 <211> 403
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-A6

 <400> 8416

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 tctaagcggc ataagtcttt agggactcaa aaaaacctct cgaacagcga ccggctctcg 180
 cctcatcatg acggtcagtt ttagctttct cactgaggt gctcgcccag ctcaactggg 240
 gcacaatcgc agtgggttctc ccagcgctac cttagccgat ataacggaac gtaaggtacc 300
 aaaacatggg agccgggcaa acccaactat tgaccaaga catgattcgg agccaatgca 360
 tataatgcta taagttcggg gtgccgcact tgtgaaagtg ttc 403

<210> 8417
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-A7

 <400> 8417

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 agccccactg ctttatctca gtatagacct atcagtttgt gcaatgtgtt atacaagata 180
 gcatccaagg taattgcaaa tagactgaaa ctcatctgc cagacattat ctctgaggag 240
 cagtccgctt ttgtccccgg aaggttaatt actgacaata taatttcagc ttatgagtgt 300
 ctgcacttta tgaagcggtc tagatcaaaa tcaataatt tttgtgact gaaattggac 360
 atgatgaagg cctatgatcg ggtagagtgg acatatctga gggctatcat gactaaactt 420
 gggtttgc 428

<210> 8418
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A8
 <400> 8418

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 atttccttgg atcttaatgt gagacatttg tcaaaggagg cttgtcacat gttgccgaag 180
 acggtgtaga tattcccagt tatgacaaag ctccagcaca tgctcatttc caacaattga 240
 aactcacttt tgatttgcta taactttaat atcgaagatg caaaacacta tcagacactg 300
 aataatgcaa taaggtttta atatgtaaaa cgatcttggt gtaggtcgta tcacacgatg 360
 tgtacagaca tgatgccaac 380

<210> 8419
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A9
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 cggcgacggc cacggcgacg gcaagaagga cggcgaccac aaggagaaga aggacacgaa 180

gaagaagaag gacaagaagc acggcgaggg ccacaaggac gacgacggcc acggcagcag 240
cagcagcgac agcgacagcg actgagccaa ctccggccgc gctccggcag cagcgtgcag 300
tgtaggcgaa atcgatgaac gcctgggaca agtgtggcat acatatatgt tgcagggttt 360
ggagcgtgtg gtaccatatg tatgtaatgc gtgacatgt 399

<210> 8420
<211> 411
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-046-Q1-E1-B1
<400> 8420

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ttagtaggtt ggttaaaaaa tatgcaagaa attagcatga aatctttatt aactatagat 120
acattttaca catatatcac acggtgtttg acttctcatc ctcttaggtt gcaataagat 180
ttttactggt cattacttag gcaggctcta atccgttatc agtgagtata gttagtgata 240
gtgttggtgg ggctcggcta gagggttatc acgagccgtc ctaagacata ctatcagtct 300
gtgatgatgt gttcacgtca acctcaccca aaatggactg ctcaattgat tggtcctaa 360
ttaaattag ttagtctgtt gattcanaat taatcctcca ttttttccgc t 411

<210> 8421
<211> 376
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-046-Q1-E1-B11
<400> 8421

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aagcaagccc cggagtaaca gtgccgcttg ccaagaagga atctgcagag tttaaaggcc 180
gaataggctg ctccggcgcca atgcggggag aaaatatcca cgatgacgcg tgagctaaaa 240
gatgccgcta gccgctgtgc aatccttgat gaggataata aagccaaaac ggttgatctt 300

aacaaggcct tacgagagggc gaaggaagca cgggtccgaat ctagagcgcc ccgggaggag 360
atccgacaag ctgggg 376

<210> 8422
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B12

<400> 8422

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caggtacgac gacgatgcca acatgctcat cgtgaagggtg ttcaacaaga ctatgtgtcg 180
catgcgctac gctgcgatg atgatgccgg tacattctgc ctcttcttat tcctctacat 240
ttggctttgt ctcacatcta ttgttaacgg tcattgttgc attttggaca ggtaatggga 300
gcagcagcag cggcactggc tacagccaaa gcagcagcga ctatggctgt agcgaaagca 360
gcagcgattc tggct 375

<210> 8423
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B3

<400> 8423

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cataggcaag gccgactttg aaggccggaa tttaaaggac ttccttgaaa gcaaccaatt 180
caaattcgta agggtaaaact ttggttaacaa caaagaagtc ctgggtcgga taggcatcat 240
tgtaggcaac accttcaacc tccagaagaa tcggctgggtg tcctctcctt agccttcaat 300
gctgaccctg gcaagagcca tggttcatcc ttcatacagt aaactggaga aacctccata 360
cacgtttcat cattatgcat ggcagcggaa tgtactagat atagaccaca tccactacgc 420
tgcaatggat 430

<210> 8424
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B5

<400> 8424

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 ccaagaggcc caagggtcgtc ttggatcctg agaacttcaa gaagtttaaa cttgtggaaa 180
 agacacaaat aagccataat gttgccaaat tccgatttgc tcttccaacc cctacctctg 240
 tgtaggcct tccaattggg caacatatca gttgcagagg tcaagatgct acaggtgaag 300
 aagtaatcag gccttacaca cctactacat tggattctga tctcggaaat tttcagcttg 360
 ttataaagat gtaccctcaa ggaagaatgt cgcatactt ccgtgaaatg aaagttggtg 420
 attaaatgtc cgtgaaggga cctaaaggctc ctttca 456

<210> 8425
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B6

<400> 8425

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 atcgtctgtg ttttaggtt tcgggtgtca atgttcttcg tgcgaactc atccagtgtg 180
 tattctttcc gtgttatact ttgtcaagtt cagagagacc tgatgagtct tttccaacgc 240
 ctctttcttg tttgtgagtt atgatgttag ccttcttcag acggataata gactttttca 300
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 ttaa 364

<210> 8426
 <211> 253
 <212> DNA

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 gatgtctatc ccattcttta cataacaccc actgtaatga tttgtggatc tcacaccagg 240
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 ctacgtaagg catgtgatag acttatgcta ctgggggtaa tgcttgcttt caattttggt 360
 tctgcatatg ttgtatggct attttaatt 389

<210> 8429
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C1

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 aacacattgg aggttgcttc atgttccac gcattgcttg attgtcgggt ggtcgttccc 180
 gcttctccgg ggttcaggca agaaggattg agcatttaaa acagatttaa tgcttgcttc 240
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 gatttgata gatagatttg agacaggagc atagaaaggt tagggccga tcacattcac 360
 ttagttcaaa agattcaaac gagaagacat agctataagt gaatg 405

<210> 8430
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C12

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ttggcttggg catgtttaac atggacgaca tcagaggggg cagcccctat ggagctggag 300
 ttcttgctgg tgacggtagc aggcagccca gcgaggcgga acttgccctc gccgagcacc 360
 agggcaagta catggccgcc ttcgtcaaga agctcggcca ggctgattc tgagc 415

<210> 8431
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C4
 <400> 8431

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 aagcagcaga atgtgccaaa ggccgacaac tgagatttct tgcaaatgtt gatccagttg 240
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 agaccttcac gacagctgaa acaatgttga atgctcgaac tatcaaggag tggattgtct 360
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<210> 8432
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C5
 <400> 8432

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 actatatgca cttccaccaa caccgacagt agctgcaagt gcaagagtat gggggcatcc 180
 tggtgcaatt aggttttagca atcttagaga gcctctagta gagtcaccat atatgtgatc 240
 accatcgtcc atatggagcg caatccatat ggatatgaag atcgtgggtgc ctgtgcgcaa 300
 acacatattc tgcatacgc agtaattttt ttcattttct cattcaaaca ctttgattcc 360
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<210> 8433
 <211> 415
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-C6

 <400> 8433

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 tttttgcttc accggagttt gtgtagatgc gaattacgtt tcaggacccc ctccccctt 180
 tttttttgcg acagacagac agacagcctt gttttttccc caggattttt acattgtttg 240
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 taagaagact gagcaccggt ggacatgttc ataggaggaa taagcacgat gtccatctac 360
 ttgaacatca ataatgtcta tatttatatt tatatctatt actgtatttg ccac 415

<210> 8434
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-C7

 <400> 8434

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 atctacatct tcaaggcgct caagcagggtg caccgggaca tcggcatctc ctccaaggcc 180
 atgtccatca tgaactcctt catcaacgac atcttcgaga agctcgccgg ggagtccgcc 240
 aagctcgccc gctacaacaa gaagcccacc atcacgtccc gggagatccg gacctccgtc 300
 cgcctcgctc tccccggcga gctcgccaag cagccgtct ctgagggcac caaggccgtc 360
 accaagttca cctcatccta ggctagtctg ccgtgtccgt gaactgatg 409

<210> 8435
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-C8

<400> 8435

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aacttttgca ataagtatat gagttcttta tgactaatgt gagtccatgg attatacgca 300
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<210> 8436

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-C9

<400> 8436

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tcaccaacct gaagatgaag acgagtactc ttctaacacg atgatataac gaggaggaat 180
aagcattggt gaacaaacct ttgggtggtg ctggcagtat ttgttgcaaa acgaacctgt 240
atagagatgt gatgtcaggg gaattcgttc cttatttgtt atgttttctt tttttttctc 300
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<210> 8437

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D1

<400> 8437

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 atgtttacaa tacatgatgg tttgtgaggt gcatgacaga aacattgggt gtactgcgcg 180
 atatttaact ttttactgga atgtcaaaag gttctgacac attgtgcaact gtctttctat 240
 ataaattgga taattttcct aatttttgca gaagttttca cgtaacataa gtagggctaa 300
 tgtccatatt aatacagact gttctgtttt agacagaatc tgtatttgaa gcatattcta 360
 cctgttatga ggaaactatc aatttataac actggattaa gccatgaaaa a 411

<210> 8438
 <211> 415
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-046-Q1-E1-D10
 <400> 8438

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 ggatcttacg agttttctgt tctgaagttt tcaaattttg gttaaagatt cgatggacca 180
 cggaataagg agtggcaaga gcctaagctt ggggatgccc aaggcacccc aaggtaatat 240
 tcaaggacat ccaagagcct aagcttgggg aagccccgga aggcacccc tctttcatct 300
 tcgttcatcg gtaaccttac ttcgagatat atttttattc accacatgat atgtgttttg 360
 cttggagcat cattttcttt cataggattt gcttgctgat catttagagt aatgt 415

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 <212> DNA
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 <223> Clone ID: LIB104-046-Q1-E1-D11
 <400> 8439

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 acctcccctg gctcaaccgg aacgagttcc ggctcgagtc caagtccaac aaccgggtcc 180

aattcccca cccggaccct ccaaaattaa aaggaaaaac tgtaaaggac agttttggac 240
 acggctgggc aggagagata ccgtgcaatt actagtgcatt attacagggg tgctgttgga 300
 gcactcctag tctttgacat aacaaagagg cagaccttcg acaatgttca gaggtggctc 360
 cgtgagctcc gggatcatgc agatgccaac attgttgta tgatgggtgg gaacaagtca 420
 ga 422

<210> 8440
 <211> 398
 <212> DNA
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 <400> 8440

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 catgatttat ttattgattg tcttccttat gagtggcggg cggggatgag cgatggctct 180
 ttcctaccaa tctatcccc taggggcatg cgtagtagta ctttgcttcg agggctaata 240
 aacttttgca ataagtatat gaggctctta tgactaatgt gaggccatgg attatacgca 300
 ctctaccct tccatcattg ctagcctctt cggtagcatg cattgccctt tctcacctcg 360
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<210> 8441
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D4
 <400> 8441

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 ataaccaagg acatgggtcc ccaaaacaaa cctcatcaa attttggtta caggccttta 180
 ttgagtagat tacaacattg cacatctttt ctgtgtggag ttaactttat agttctgtaa 240
 tacactagac ttgctctggc taagtttctc ccaatatata tggtagaata gcctactaaa 300

ttttttaagc ttagcacata aattaaagca cagttactgg gtttgtataa ttgtaggcat 360
 ggtaattgt gtggtgtacc tctatTTTTT ggaatttTgt agtggcatac tggcaaccaa 420
 ctgt 424

<210> 8442
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D5
 <400> 8442

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 tcatattcaa gagctgcttc tcaagcagac gaataacgca ggagctgccg cccgagagaa 180
 agccaagatg gatcaacttg agttagacgc ggttactcca ttgtatgaag gatgcaggcc 240
 cgaggatacc cgctgaaag taacgctcat ggctctggag atgaaggtaa aacacaaaat 300
 gaccgacgca tgcttcgacg agaacatgtc attctggcac gaacgtcttc ccaaggggaa 360
 caagtgcccg actagtttgg aggaggcaaa gaaaatcgtg tgcctctgg atttaccgca 420
 cgtaaa 427

<210> 8443
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D6
 <400> 8443

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 accaaaacac ttatcctttt gggccatccg gtgccatgtc acacgcgagt ttcagaacat 180
 tgatctgcc aatccatcgtg catgttgatt tgcataacac tgtaaacgg ctcgatctga 240
 cgtttgaata tctggcactt atactttatc atatcatcag attacgcaga ccatactttt 300
 catatttctt gcacatactc atctaactg tgcctgtca tatttaccoc agggaggggg 360

atgcgatgta catatttcca tgg

383

<210> 8444
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D7

<400> 8444

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gtagcctgcg ctttggttag tattttgttc ggcgctcgag ttcgtattct tcggctgctc 120
gggccttagt ctgtctgtct gtgagcagat cttggtcagc ttggagctgc tgctgcttct 180
tttttaggct tcttgcaagt gctgtaagcc tgcgcttgaa gcgctcctgc tctatgggat 240
cctctggtat gccaaatttg tcgccattga ggtcacctc gtcttcggag ggaggcatat 300
agttatcatc ctccaagtat ccgtccatcg cctgttcgtc t 341

<210> 8445
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D8

<400> 8445

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atctccgtgg tgcggaacgt gcacatgcac tgcgaggcct gcgcgcaggc gataaagaat 180
aggatcgaaa acatgaatgg agtgcaatct gcatacccgg acctgaacgc gtctgaactg 240
acggtgaatg gcgtgtttga agaggtcaag ctgactgagt acatgcacaa tcgcaccggc 300
aggcatgccc ccattatcaa gtccgagccg gttgccccgg ccgagaaggc cggcgaaggc 360
gacgccatcg atcaaaaaga 379

<210> 8446
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D9

<400> 8446

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tctttaaatt tgcaccttgc ggattccacc attaaaaagc caatgggaag gatcaatgat 180
gttcccattg ttgtaaatag aaatttgatg cccgtagatt ttatcgttct tgatatagat 240
tacaatcttt cttgccctat tattcttggt aaacctttcc ttagaacgat tggtaggtatt 300
attgatatga aggaagggaa tattagattt caatttcac taaagaaagg catggagcac 360
ttccaagaa agaaagtcaa attaccttat gaatctatca tgcgagcta 409

<210> 8447

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-E1

<400> 8447

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aaggggctga tttgatcca catgtttcat gctatggta ggtttacctt aatacttctt 180
ttgtagttgc ggatgcttgc aataggggtt aatcataagt gggatgctcg tccaagaaag 240
gacagtaccc aagcactggt ccaccacat atcaaattat caaagtaatg aacgcgaatc 300
atatgagcgt gatgaaacct agcttgacga taattcccat gtgtcctcgg gagcggtttc 360
cttcatataa gaacttgtag aggattgtcc tttgtacaa aaaagattgg gccatcttgc 420
tgc 423

<210> 8448

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-E2

<400> 8448

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 cggccctaga tatggattgg gtctacgagt gtogttcaac cttaacgttt gggctagatt 180
 gtgctgtccg gtttggttac atttttctgt ccaagcagcc tgatacgggg ctctgtttgt 240
 aggtgctctt agagcaccta caaccggacc ccataccgc ctcaaagtgt cgtgctggct 300
 gccatatcag tgctcagacg aaaaaagca acccaaccgg gcgtcccgta ttcgggtccaa 360
 atgcccgac tgactatcaa cccagcatc cagctc 396

<210> 8449
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E3
 <400> 8449

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 caattcaagg aaacaacctt aaccggcaag gccgttacca aaacaaaggt aacctcctcc 180
 tccaatttgg gcccttaac cttcggtacc aaaactgttg gaggattcat gacaaacctg 240
 ttccaagga acactgtcat cccacaaag aagtcgcagg ttttcaccac ctaccaggac 300
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<210> 8450
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E5
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 atcttctgag attgatgttg ctatgacttt gctatgctta atgcttgtca ctagggcccg 180

agtgccatga ttccagatct gaacctatta tgttttcatc aatatatgag agttcttgat 240
 cctatcttgc aagtctatag tcacctatta tgtgttatga tccgttaacc cccaaagtga 300
 caataatcgg gatacttacc ggtgatgacc atagtttgag gagttcatgt attcactatg 360
 tgctaattgct ttgttccggg actctattaa aaggaggcct taatatccca taatt 415

<210> 8451
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E6
 <400> 8451

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 attgcgggat attttcaaca actttttcct aagtcaaaag ttagcacggg gtttgtatgt 180
 gagttatcaa ctttgtgggtg tgtaaaatat catgggtattt acatagaggt taccagggat 240
 atgttttcaa caacaaacaa tcccgggtca aaagttttca cagtgtttgt gagtgtgtta 300
 tcagctttgt ggtgtattac catgatattt acacataaac taccgaaggt atgttttcaa 360
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 agcaacg 427

<210> 8452
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E7
 <400> 8452

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 cgacggcaac cgcatgtcca tcgectcctt ctacaacccc ggcgccgacg ccgtcatatt 180
 cccggccccg gcgctcgtgg gcgctgccga cgctgctgag aggaacgagg gcgaggagg 240
 caccgcgcta tacccaaggt tcgtgttcga ggactacatg aacctgtacg tgcgccacaa 300

gttcgaggcc aaggagccac ggttcaaggc catgaaggca gacgccgcgc ccatgccac 360
 cgcgtgataa ctgatacgcg cccggacccg gacgagagta ttgtgagacg tgttttaatt 420
 tc 422

<210> 8453
 <211> 170
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E8
 <400> 8453

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 atctgcaagt tatcacgtgc tggccgtact acagtgtgat ttacacgtgt tctaactgct 120
 gtattgtatc atcatgttca tcgtctcttt ctacatgccca ggcgcttact 170

<210> 8454
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-F1
 <400> 8454

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 atccccaggg agggatgacg atcccatttg gaggggaaaa gccactccc gaaagatggg 120
 catggattga tccatctgtc ttcaagctaa ggagtgaac attcctcaga gataagaaga 180
 aatgtccagc tccgaactat gccgcgtact acccaatagg tgttgacttg tttgcaagcc 240
 ccaagaaggt ttgcacatc gccgaacaca ttgatcttcc acaagtcaaa tcacacgaca 300
 agctcccatc acttttgatc gtcaacatcc agatgcctac ctatcctgct gctatgttcc 360
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<210> 8455
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-F10

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Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000	1,550,000	1,600,000	1,650,000	1,700,000	1,750,000	1,800,000	1,850,000	1,900,000	1,950,000	2,000,000	2,050,000	2,100,000	2,150,000	2,200,000	2,250,000	2,300,000	2,350,000	2,400,000	2,450,000	2,500,000	2,550,000	2,600,000	2,650,000	2,700,000	2,750,000	2,800,000	2,850,000	2,900,000	2,950,000	3,000,000	3,050,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	3,400,000	3,450,000	3,500,000	3,550,000	3,600,000	3,650,000	3,700,000	3,750,000	3,800,000	3,850,000	3,900,000	3,950,000	4,000,000	4,050,000	4,100,000	4,150,000	4,200,000	4,250,000	4,300,000	4,350,000	4,400,000	4,450,000	4,500,000	4,550,000	4,600,000	4,650,000	4,700,000	4,750,000	4,800,000	4,850,000	4,900,000	4,950,000	5,000,000	5,050,000	5,100,000	5,150,000	5,200,000	5,250,000	5,300,000	5,350,000	5,400,000	5,450,000	5,500,000	5,550,000	5,600,000	5,650,000	5,700,000	5,750,000	5,800,000	5,850,000	5,900,000	5,950,000	6,000,000	6,050,000	6,100,000	6,150,000	6,200,000	6,250,000	6,300,000	6,350,000	6,400,000	6,450,000	6,500,000	6,550,000	6,600,000	6,650,000	6,700,000	6,750,000	6,800,000	6,850,000	6,900,000	6,950,000	7,000,000	7,050,000	7,100,000	7,150,000	7,200,000	7,250,000	7,300,000	7,350,000	7,400,000	7,450,000	7,500,000	7,550,000	7,600,000	7,650,000	7,700,000	7,750,000	7,800,000	7,850,000	7,900,000	7,950,000	8,000,000	8,050,000	8,100,000	8,150,000	8,200,000	8,250,000	8,300,000	8,350,000	8,400,000	8,450,000	8,500,000	8,550,000	8,600,000	8,650,000	8,700,000	8,750,000	8,800,000	8,850,000	8,900,000	8,950,000	9,000,000	9,050,000	9,100,000	9,150,000	9,200,000	9,250,000	9,300,000	9,350,000	9,400,000	9,450,000

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<213>      Triticum aestivum
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3756

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 tgggtggttcg ggaagtgggtt cttcatcatc cagtggttca gggtcaggga gctcagggga 300
 cagcgcctca gaagctggcg atgctcgttc tcttgtttag aggaggttgt tctaacagta 360
 ggatttgagt angtgaggga tgtgagtact taattctggg atg 403

<210> 8458
 <211> 168
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-F4

<400> 8458

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 gacttacggt ttaacaaaaa cttccccggg aaattcaaga tttctcca 168

<210> 8459
 <211> 354
 <212> DNA
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<223> Clone ID: LIB104-046-Q1-E1-F7

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 gaagactctc ttcattacc gaatttcaga tcttgggtatt gtattcacac agcaggcaaa 180
 gcaaaacaaa atggcattgc acggatagca caacacatgt gaagaagcag aaacttaggt 240
 tcaaccgata ctaatcgata gttgttgaag aagaaagggtg ggacgcctag cggggcatcc 300
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<223> Clone ID: LIB104-046-Q1-E1-F8

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 caacagttca actccttctg catagccaac ttcggggtca tgatagacgt cgccaaggac 180
 ttcagaatca tctcaattca ccgcattctt cagatccagg agcagatgaa tctagatagc 240
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 ga 362

<210> 8461
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-046-Q1-E1-G1

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 ggacacctac tcaagttgct agccatgctc agaagtattt cattcgccaa acaaagtgtta 180
 ataggagaaa gagaagatca agcctcttcg atatggttat tgaggatcct ggtgaccagc 240
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 ccgtgataac atctgtttct gtccacca 388

<210> 8462
 <211> 423
 <212> DNA
 <213> Triticum aestivum
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<400> 8462
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 tcccaatcca tgaaatctga gtaagtttcg ttagatccgt gtagtgtatt gatgttttga 180
 atggtacagg tgataagaga ttagttgttt catatgtgca aatgatttct tctagtaatt 240
 cgactagggc cagtgttcgt gctaataatt cctagccagg gcttgacaat tgattttgaa 300
 tgacctaaat atgtttgtgc cattattttc ttcaagattg gtctatacat agacgactgt 360
 gcttaaaaat agaaccataa tatctggata tgtataaata aaagccataa attcctaata 420
 cta 423

<210> 8463
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-G2
 <400> 8463

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 tccgcaaacg gcaattcaag ttaccaaagg ccggcttaac atggccggcc ttccttgaaa 120
 ccaagtttac cttcatgcat gcacgggtgtg gtgtgcccgt ttccttcaac ttttgtacaa 180
 aatcatgcat cagggcgtag ataccgtatg gcatacatat atacatagag cgagaaatat 240
 agtagagagc ttcgtggtac attattggtt ttattacggc actcatctct ggtttgctgg 300
 tgtatggact caggaggagg 320

<210> 8464
 <211> 326
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-G4
 <400> 8464

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 tggcccaaat ttggaataag caaccccccg gtccggaacc cttggaccaa atccgggaaa 180
 ttggcgcaat caaccaattc aaagccaaca tcgtgtacct tgctgcggc gacaaaattc 240

ttggcgctcga tgtggttact aagaagataa ctaggatttc tggcttagct atagctgtgc 300
cagatctccc cctactacca tgtgtg 326

<210> 8465
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-G5

<400> 8465

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ccgtctacag aggagctcgt aagagccgtg gtctgggtgat tgctcccaag gattactcca 180
ccaagtaccg ttactgaggt atctgtgcct ggetattcat gtgcagtgtg tggcctgctc 240
tgttctgtga aatgagctgt gtgacccttg atgtaatgtc tgtcaacttt gaaagtgtcg 300
cgtaactatg tatttgtatc ttaaatacat gtcataaacc tgtaaccctt tgaaacagga 360
cctgctgtct attggtatta ctgattaaag tgatatttgg ttg 404

<210> 8466
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-G8

<400> 8466

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gccccgcgca gtgcgcctac gaagggtggag tcttcaagct tgaacttttc ttaccgagg 120
aatatccgat ggctgtcct aaagttaggt ttctcacaga aatataccat cccaacattg 180
acaagcttgg tagaatatgc ctgcacatcc taaaggacaa gtggagtcca gctcttcaga 240
tacgactgt tcttcttagc attcaggcac tgctgagcgc cccaaacca gatgatcccc 300
tctcagaaaa cgtcgcaaaa cactggaaat ccaatgaagc tgaagctgtt gagacagcga 360
acgaatggac tcgtaagtat gccaatggtg catgac 396

<210> 8467

<211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H1
 <400> 8467

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 tatccgttat gtgttcgtga cgatatgatc atacgctttg agtgcaaaga tgaaattttt 120
 tgctgttggc aatggacata cttgtgatag caatcaccct catatgcctc tcatgcctac 180
 cgggaaagat ccgggaaagt ctctttcttg ggtagacacg agcttgtccc tcgtcgagac 240
 ggttacgacc ggcggggcag ggggaggtat gatgagtggg ggttgtgtct gatggatgtg 300
 agatattatc cttgagctaa tcatgcagga aataacttaag cctcctgagt cggccgtaga 360
 tcgaatectg ttccagtaac cccc 384

<210> 8468
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H10
 <400> 8468

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 tacttgataa ttgttttgag atatggagat ggtgatatta gagtcatgct agttgagtag 180
 ttgtgaattt gagagatact tgtgttgaag tttgtgattc ctgtagcatg cacgtatggg 240
 gaaccgttat gtgatgaagt cggagcatga tttatttatt gattgccttc cttatgagtg 300
 gcggtcgggg acgagcaatg gtcttttccct accaatctat ccccttagga gcatgcgcgt 360
 agtactttgt ttcgataact aaaagatttt tgcaataagt atgtgagttc tttatgacta 420
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<210> 8469
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-046-Q1-E1-H11

<400> 8469

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tatcattaat gtggggcggt gacggatgga cggacggtag ttctgtcatt tgaaggcgga 120
gcaatcacct gactangaa gcgcgacggg cgacgctgac cgtttcgggc ggaaagcacg 180
cacaagcgag ggaggaggtc tgggtgggcc agggcagtc gactcgtgct tggcaacggg 240
tcgggtccagc agccggacat gctggctcgc cagcaagctc gcctagctga gcgacgacaa 300
tcagatgatg gacgtagctt ccaaccagga gccggcgcca ctgtccaagc cggttcatgc 360
catgttcacc atagagcaag tgcggctgca cttcgacgcc ct 402

<210> 8470
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H12

<400> 8470

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ggtgaggcct ctgcggcagc acagccggcc ataggaggca ggagcatgcg gcacgaccaa 180
cgctgctttg ggcggtgga gcaagaagac caagaagcac tacggccatt ggatggacat 240
cgtacgggtc ctggagctag aatcgttcat attgactaag ttgacaaagc cctccgtctc 300
cgtcaactta gtagggccac aagtcagcct cccaccatgc tgggtcccag ctagcagggg 360
ggtattcatt tttttgtgcg taataaggag gcacttcct 399

<210> 8471
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H3

<400> 8471

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cagctagagg aagacgaagg cgcttcgatc agtccgatct cctgctcctt ttacatgatg 120
 attactatta tcttaatctt agtgcagtgt tatgtaatat gcaccatgaa ttggtagtgc 180
 agtgcagtgc agcacagcac atctctgaac ctgggaaggt actactagct ttcttttcac 240
 tcagacaagt cgggagggg tttcttgta gttagtccgt ttctggcttg tcagtagctg 300
 tgggtcgtgt cgtgtggatc gagttagtgt tactaccaga aattcggaat gacatggaac 360
 ccatgcatag catagccgat gac 383

<210> 8472
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H4

<400> 8472

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 aatttacatc accgaccgac aaataaaaaa ttgatggcca ttgataaggc cctggtttga 120
 tcccttcggt aaactaccac tgacctgcaa gccattaaat accgtttgtg atgacaaagt 180
 cattactaac cctgatgggt cattcgcgca tcagtgatga tacaatttgg ccgatcagtg 240
 ctattcgggt ctgcagtgt ggtaaacaag ctaggattag atataaccga atatacatgg 300
 agacgaagat gtatccgat gttctcttcc ttggaggaga actagtcacc gctagagagg 360
 tgggaattca tggatacggc ccaaatatgt 390

<210> 8473
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H6

<400> 8473

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 acatggtgct cgacatggac aaagtttgggt ctgccgcact tctgcacggg tttcgccccg 180
 ttgctgaggc ttgatcgtct ggttgcaagt cgagtgaata agcgttacgc agataaggtc 240

atatgctcgc tgaagggcca tgctgaggaa gaagaagcag acttattggc tagcagatga 300
gtggcctata attaattaag tactactact agtttgatct actactacca aggttacttg 360
gttagctatt actactgcat tattcatctc ctacgataat gaggtaatga 410

<210> 8474
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H9

<400> 8474

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actcaattaa cgattgcggg cggttctaac ctttactctg aatgcgatgc ctggttgcaa 180
atctacctat atgtgctggc tttactctca aagctatttg gtctatcaca gtaactaaat 240
caacactaat gtgtacggca gcgttgata gattctcgct cagatctaac acaatcatga 300
aactgaatca tatttgctct tgaacttttt gtcacccatc gtttgcataa acatatgtat 360
acttttcaat ttgtacttgt ccggacaagc ggcaaccgtg ccgcccgcga tgcaaate 418

<210> 8475
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A11

<400> 8475

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cttgagagct cgagcgaggg gagtgagatc gagcggggta aatgcagtct gaggaggggtg 120
aggggtatatt aaagccgagg tgaaaaaccg ctgcgccaag gaaaatggac gaacgtgccc 180
ctgacccttc tcatcctagc gacatgtggc acccagctac agtgtggtgc aaatcggtg 240
agatcggtgg tgactagata actcttatcg tgggatgtgg gacattttga gcggcaaaag 300
ccgaaaattc ggataagaat attttaatgt ttcgtttctca aattcttcag ctgacaagga 360
tacagtgatg attttgaacg agtttcaaat agaacgcaca 400

<210> 8476
 <211> 357
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-047-Q1-E1-A4

<400> 8476

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 aggaggaaaa ataaaaggaa gaacgcagga ttttgaccaa caatcagtaa ggggttgaca 180
 cgtgtcgcaa aaataaaagg aggaaaaatc tgggactgac caacaatcag tccacagatt 240
 ttgttttcag tttagggtoga attttttgcc caataagggg ttgacacgtg tcgctgatat 300
 ttgagctgct gtatgcaaca aattcgacgg attcgttcga aagttgcctg gacggcc 357

<210> 8477
 <211> 285
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-A5

<400> 8477

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 tacgtgcagg gacagggtgt aattttcttg ttagatgcat gctcagatgc atctatcctg 180
 cagaccagtc ttcttcttct tttctttcct tggaaaacct tttgtggcgt gatttggtta 240
 agccttaggt ctgccaatca atttagcaag aataagttta tgttc 285

<210> 8478
 <211> 257
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-A6

<400> 8478

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gcatggacag ggtgttattt tcttgtaga tggatgctca gatgcatcta tctgcagag 180
gaatcttctt ctttctttca ttctttggga taccttttgt ggcgtgattt atttaggctt 240
caggctctgcc agtcaat 257

<210> 8479
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A7

<400> 8479

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caagggattt ttacatctgt gtccttggtt ccttagctct actcattcat ccccgcgctc 120
taaatttttg ccaattttcc ccaatccctt gccagaaacc ctcataactg ggcacaacga 180
acattgccgt cgggtcatag gcttgaccgt taactctgac tagtggggcc acgctggact 240
gtgttgccg ttcaacctga caagtggggc tgcgctgggt ggtgtcgctg tttgaccgtt 300
gggccgtggt ttcgttgggc cgtcccttgc attaaacgtc tgcgcgcact accaggacaa 360
aagcctgcta tgcattgcacc cagcaaacc t 391

<210> 8480
<211> 380
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A9

<400> 8480

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gcatgcgcac ggctgaccca attcgggtcaa tctcctaaca caatcgtttc gtttcgtttc 180
gtttccgtga acctcaatca gcagaccctg tgctggcgcc ggtagtatgt aatgtgtaat 240
cgctcgtgat agcgagacga cgcaccgccg atcgatcgat cgtggtcgag tcgttgcgtc 300

agtgactatg tgcattgtgt ttaacatggt agcgacctgt tgctgtcgcc gactaatcat 360
caaaatcagc agttccattc 380

<210> 8481
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B1

<400> 8481

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acttatacctt gaatttttcc caggtgactt cctcattaat cggccacatg gcttttgtat 180
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ccaatgggtc agcaacctga ctgaaattgg gtggattggt cctctgaaaa tctgacagct 360
ttgagtgatg accattctga tttccatttt gtccaact 398

<210> 8482
<211> 409
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 8482

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cataagggtgc aactcttcaa ctgtgtaaat attcaagttt ggtcacaata ccttgtcagt 120
atcaaccaga actgtcaaat gtgaggttga aggcttgtca tgcctcgcca cattagcacc 180
tggcagatca gaaggtttat tcgtgctttg attctggtaa gcacgatggg aggaaccaat 240
agctggactt gcagaaggga cagtcagaga agccattgta tttccagaca tttgatgtgt 300
atcttttatg ctagtattag caggcctact agcancagat gtgccagtac tgaatacagg 360
aggctccaaa gaaacggctg atcacaaatc tgtggtgtgc tgaaaatat 409

<210> 8483
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B2

<400> 8483

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 gaagctgtgc tgcaagtatc tgattgggggt ttcagcttgt cagatattca aatgcagaag 180
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 tgggcgggat ttctgggccc aatccacatt tggcaggaa tggatgaccg ggtgggtgcc 300
 ccgtcggatga ccgagtttgc caggaggatg gttccaggag ccactgtcca caagcttctc 360
 gacgaaggcc acttctcata cttctgtttc tgcgac 396

<210> 8484
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B3

<400> 8484

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 ctcttgtgcc gcgcaacttc accggtacca tacaccacc atatatcttc ctcaaaacag 180
 ccaccatacc tacctatcat ggcattttcca tagccattcc gagatatatt gccatgcaac 240
 tttccaccgt tccattcata tgacatacat tacttttgtc atattgcttt ttgcatgaac 300
 atgtagtga cattgtatct gtggcaaggc caccttcata atttccatac atgtcaatct 360
 tgattcattg catatcccgg tacaccgccg gaggcattca ta 402

<210> 8485
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B4

<400> 8485

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aggaccacca ggacgagatc tgcgaggttg tgetgaccaa gagccccgac gcgtcgtgcg 180
ccgagatcga ggagtccgc gaccgcgcgc gcgtcccgt caccagcaac aacggcatga 240
agcagcaggg caccgccttc gccaaaccca tcgccttctt cccaaggag ccgcgcaagg 300
agtgcggcgg catcctccag gcttacgacc tcaaggacgc acccgagaac ccatgaaccc 360
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<210> 8486

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B5

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aaaaagaaaa aaatgaaaaa aaaaagagga aagttaaaaa aataaaaaata aaaaaagg 180
ggcgtttcaa ggggttcaag ttttatttcc gggttatggg aattttaaac ctttttaaag 240
ggtcccaaaa ttttaattta aggggggttt ttttaaaagg ttgtatgggg gaaaaccctg 300
ggttttccca attttaccct ttttgaaaaa atcccccttt tccaaatggg gtttattact 360
aagggggccg aaagggttgc cctttccaag attttgccaa cc 402

<210> 8487

<211> 336

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C1

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aggacggcga ccacaaggag aagaaggaca agaagaagaa gaaggacaag aagcacggcg 180
 agggccacaa ggacgacgac ggccacggca gcagcagcag cgacagcgac agcgactgac 240
 ccagctccgg cccgcgctcc ggaaccgttg cagtgtaggc aaaatcaatg atgaacactt 300
 ggaaaaagtg tgacagacat atatgttgca gggttt 336

<210> 8488
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-C6
 <400> 8488

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 acggtcacgg cttcctatgg tcgtatcctt cctggtcgtc ttggagtcct cgcttcggcc 180
 gtatccttgg tggattgtc atctacatgg tgggtctcag cttatcatca ggggtgcttgg 240
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 gtggtggagt gcgtttgtat cttcttactc gaatgttgtg gtgatgggtg ctttatatat 360
 aaagcagggg accccttttt cgCcaaaaaa aaaaaaaaaa gctaaaaaaa gaaaaagc 418

<210> 8489
 <211> 77
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-C7
 <400> 8489

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 tgatcgctact tgtctct 77

<210> 8490
 <211> 407
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[illegible]

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<223>      Clone ID: LIB104-047-Q1-E1-D3

<400>      8491
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gccttcttga	acttagtggg	aacaacgccca	ttattgtcat	ggatgatgca	gacattccgc	180
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gtcgtaggct	gcttcttcac	gaaagcatat	atcaaacatt	tcttgatcaa	cttggtgagg	300
tttataaaca	agtccgtatt	ggggatccta	tggaaaaggg	accttgctgg	accaacggca	360
actactacat	caaaaggaaa	gctttttgaa				390

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<213>      Triticum aestivum

<223>      Clone ID: LIB104-047-Q1-E1-D4

<400>      8492
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gactttttta aaaataaaaa ataattccac ttagaaaaac aaagaaaaga aataactaaac 180
 ggactccaaa aatcctgaaa taaattttcc ccttcctcta aaaatctaac ggacaagggtg 240
 aacattttatt tgggcctcta atgcaaattt tgaaaaacgc atattattcc taattcaaatt 300
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<210> 8493
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D7

<400> 8493

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 taggcaatgt gggactaaac gtagacaaaa atatatgaaa cagagaagaa aagaggcgga 180
 tgggcctaaa ggccttcggc ccgccgcgcg cacgctgcag ctgcagtttt ttttaaaaaa 240
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 aatggggcgc cagaagctac tatactgcgc atgtaggcga caaataaata tgggccgcac 360
 gtacattttt ttaaatagaa acagaaggaa aaccgaatag caaagattaa ataaaaa 417

<210> 8494
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E3

<400> 8494

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 aataacgctc ttgttcaacc gtcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggc ccacaaaaga ttaaaactaa 240
 atatccggga aaaggaaatt aaaaaccctt aaaaagggga cacaaaatta aattaaagg 300

gcgactttta aaaaaattca aacgggaaaa acccgggggt aaacaaaata aaaccctta 360
 aaaaaaacc cttttcc 378

<210> 8495
 <211> 361
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-E4
 <400> 8495

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 atggatggtt catcaagggt agctatatatt gtagggcttg ttatacagag actgtattac 120
 cactgccaga atacactagt tagcaggtac accagttcca gctgagctgc tgagcaaagc 180
 tcatcatact actatacatt ttcttcatct acaggggttg ttcatgggtg atgggctgac 240
 atgttggttg tgggcattct tgtacttttt ttttgacca gattctttga tgtatttttt 300
 caaaaaaaaa aaaaaaacca aaaaaaaaaa aaaaaacaat aaaaggaaaa aaaacacaaa 360
 a 361

<210> 8496
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F10
 <400> 8496

attcccggtt cgacgggggt gtgtagtggt ggtgatgctg cgctctgacg aaacatctgt 60
 gacggtgtta ctggcaatga atttatagga tttttccct cttcaccttt gagttagtaa 120
 cttttctccc caaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaggag caaaacaaaa ggaataaaag ctaacaacaa 240
 aataaaagca acgtcaaagt ccctgaaacg tagtcaacca aattcaattc atcgagaagt 300
 cgtaaagaa aatacagaga ggtaaaaccc ttagtcacc cagtataaca gcattgtaac 360
 aaaacccggt gtcaaaagca agaggaatac ccaaaaggcc cgtaccaata gcggtgcaca 420
 agaattgggc a 431

<210> 8497
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-F2

 <400> 8497

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 ggagaagctt gctgtttttg atgctgctat gaaatacaag aatgaagggc atgacactat 180
 catcctggct ggtgctgagt atggcagtgg aagctcaagg gattgggctg caaaggggtcc 240
 aatgcttcag ggagtgaagg ccgtgatagc caagagtttt gagaggattc accgtagcaa 300
 tcttgctgga atgggcatcg tccctctatg cttcaaggct ggggaggatg ccgacagtct 360
 tggcttaact ggccatgagc gttacaccat ccagcttccg actgatgtga atgaaatc 418

<210> 8498
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-F4

 <400> 8498

gacgggaagc caaaatgatg taaaatagac ccgtggccat aggttttact agtggcttct 60
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 cgcatagtta tgatgatatc taggcatgat catgaacata ggcatcacgt ccgtgtcaag 180
 tagaccgaaa cgattctgca tctactacta ttactccaca catcgaccac tatccagcat 240
 gcatctagag tattaagttc ataagaacat agtaacgcat taggcaagat gacaggatgt 300
 agagggataa actcaagcaa tatgatctaa aacccatctt tttatcctcg atggcaacaa 360
 tacaatatgt gccttgctgc ccctgctgtc ac 392

<210> 8499
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G2

<400> 8499

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accgtccgcg gccgatgcct tgccctttcc cttggaacag gttgtcatgt ggcgactgg 180
aagcaccat tcacagtga actcctccaa ggctgcgagg agcaaggaca tgggtgcattg 240
atcgcatgt tgtagaagg taaatccaac cactcacgcc agagccgaga caccatacct 300
gcatgcatgt tggtgtgctg tgggtgtgca tgtactcctt ttgtaccgaa atatttctag 360
ttgaaaagtt atcacgtaaa atgtaaccgt ttttaaggaa agaaaaa 407

<210> 8500

<211> 371

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-047-Q1-E1-G4

<400> 8500

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tcggccattc ttgctgcaan aagccctttc tttttcaagc ttttctcaa cggcataaaa 120
gagtctgaca agggacaggc aacacttcga atagctgatt cagaggaaaa tgccttcatg 180
gagcttttgt actttatgta tagtggaag ttgacaccaa caactgagcc cactcatctg 240
gttgatatct tgatggctgc tgacaaattt gaggtcattt cttgcattaa gctttgcggt 300
cagttgctca caagcttgcc tatgacccca gaatctgcag tgctgtgcct agatctacca 360
tattccattt c 371

<210> 8501

<211> 320

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H1

<400> 8501

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 agcggcctgc atcaatggct ctgcagttgt tctacgtact agtacttctt tgttcgaaag 180
 aaacacaatt ctgtagttga tcgtggcaaa attctttgac atggatccac caacggggca 240
 tccatctgaa cttttgttgc agcatcagta tgtgcactgt ttaacccgca aaaaaagca 300
 tgtgctatgt ttttttggcg 320

<210> 8502
 <211> 333
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 8502

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 cgtttattaa tctaggtcca tggttgatgt gtgaatactg ttgccatcgg ggtacatggg 120
 ggtagcccga cggccatgat aagccgacgg ccacggctag gctatcgccg tatttggcgg 180
 ttggagcacg aagaccatca agcactacgg ccattggatg gacatcgtag ggtcactgga 240
 gctagaatcg ttcattattga ctaagttgac aaagccctcc gtctccgtca acttagtagg 300
 cccacaagtc agcctcncag catgctgggt etc 333

<210> 8503
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-H2
 <400> 8503

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 tgatgatgcg catgccagga cgtgctgatt gtacaacttg atgtaccaat gcattggtag 180
 ggtaagacgg cttttgccat gtcgggtgcg ctcgcttggc aagccacaag tcaataaaaa 240
 gtatatattg tggtgtttgc ggggtggaga tcgcacggga acaatctatt tgttctattt 300

tgccccgggtt ctccaccctg ccatgggtgc tctgtccttc tctgtgttg ttgattccac 360
cgcatcatct gaagtacacc gcgatcctac ata 393

<210> 8504
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H4

<400> 8504

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gtgtccaatt gctgggccta aagtccaatc ctttaaagggt tcgagttccg ggccaaaatt 120
tgtaagccgg cggcgcaaca acaccattgc cccgggcatc tacaacaacg gcaccgaatc 180
cgtatccata taccaccacc aatccgtgtc catataccac caccgatcca tatccatata 240
ctaccaaccc caacagcccc cacaacctca actgcagctg catcctcaag cacagcagcc 300
tcaacaaccc caatcgcaac tgcattcatc tcaatcacag cagcccctgc atcctcaact 360
gcaaccgtat actcag 376

<210> 8505
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H6

<400> 8505

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aacgccacca gcgccgggt caacgtcacg aggtcgtcg tccacgagat ggactcctcc 120
tacaatcagg cctacatgac ctactgttaa aaagaaaatg caaatattat ttttgtttag 180
taaaaatatg atagatagca cattgtatgt actgttttta gaccaaggaa ggtcgtctca 240
tttcttcgtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aataatataa cataaaaaaa aaaaaagggg gc 412

<210> 8506
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H8

<400> 8506

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 ggcgacgacg gacaacaagg ggtggtacaa gatcgagatc gatcaggacc accaggacga 120
 gatctgcgag gtggtgctga ccaagagccc cgacgcgtcg tgcgccgaga tcgaggagtt 180
 ccgcgaccgc gcgcgcgtcc cgctcaccag caacaacggc atgaagcagc agggcacccg 240
 cttcgccaac cccatcgctt tcttcccca ggagccgcgc aaggagtgcg gcggcctcct 300
 ccaggcttac gacctcaagg acgcacccga gaacccatga acccccatcc catccatata 360
 gtctcgtca gttgcttccc atcatcatca tc 392

<210> 8507
 <211> 354
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-A11

<400> 8507

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 tgatttcctt ttcttgcat aggtcaaagc tgctgcattg atgctaggag cattattaga 180
 tgaattctca tgatccacta acagcgcttc tgcgacggtc gcgagcaaat caaacgggga 240
 catctcatct ttctttctcc tggctgagcg tttccctga atcatcaccg ggcgttaata 300
 cataatatcc agcacgaaaa ttgcgcgggg tcatggcagg tagtacagga tatc 354

<210> 8508
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-A2

<400> 8508

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 cttaacacgc tccatgcctg cataggaggt tgcacagct gactgacgtt atccaccaca 120

<210> 8509
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-A5
 <400> 8509

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 ggggtttcac ctcatgtatc ctctcccact tacccttcg tggcttagac tttaaataga 120
 ccacctccac cttctttcta ggggaagcaa atatgatagc tcattcttag gtgagctttg 180
 ctctacctc tacctaagag gcaaggctct atacactaga atagttttga tgtgtcccg 240
 caactcacag aacgaggaga agctttctta gtatgccgtc tcccccgcca acgggcacgg 300
 tggcttgag gatgaggatg agcttgctta ctagtacgcc ttatgccgc tccctggccc 360
 aagcgcgtgg ttgatcacag gacaaggaga aaattttact actccgtcgt ttactcctca 420
 acc 423

<210> 8510
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-A7
 <400> 8510

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 agggtaataa ttctgataaa ggtgaggaga atgaagaaga ggaagccgct cgtaaagata 180
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 atgatgacga ggctgtggat attgaccag aggagcgggc agatttagct cctgaaattc 360
 ctgctccacc tgaaattaag caggatgatg aagagaatga ggaagaagggt ggctgagca 420

agtc

424

<210> 8511
<211> 417
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-048-Q1-E1-B1

<400> 8511

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acctgctaca aggagctgac caatggcggg gagaaactcg acaatttggt cacgagcaaa 180
gagggctccg acgatatcgg catggcccag ctccccgaaa tccgtagctt catcaaggag 240
aacaacgggt cgcattgcca gtggaattgc gatagggtgc gccctgcaaa tgacaagaag 300
acacccgatg atgtctccaa gaagaacgat gctgagaagg ccatggctgt cctgnagggt 360
cttgtcaaca aagtgaccaa ataaagaaaa acaaaccctc attgcatact actagct 417

<210> 8512
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B10

<400> 8512

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tgtcatgtct taggggtgag tggtggcaat aagccatgca tgtgatggtg gcgaccggct 120
tgaaggcaac taggtcaagt ctgtaccgtg tgtgtgcact caagtccgac acgtacggca 180
tagccgatgg caagtgtgcc ggccaagtct gctagatgca tgcacgtagt tagttggagc 240
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gtgcatgcat gtaggagtca gcaagaagtt agctgggttag tggccgggtg gcgtgcgtgt 360
gtggtggccg ggtagtggt gtgcgtgcat ctgtgctagc ccgggtataa aa 412

<210> 8513

<211> 378
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B12

 <400> 8513

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 gacctgacag aattatacta aataatgctc ttgttcaatc gtcaggctcc ggttcaagta 120
 ctgcaaaaaa aataaactag atcagattta agaaactcaa gattatgttc aaaaagaagt 180
 ttgaatatga atctgaaaaa aaatttgaaa ttttaaaatc tcaaaaaagt tgatgtgaca 240
 ggtgcactgg atacgtgaaa acaagacgaa cctataggct caggtttcat ctaatttgga 300
 tacatgagtg aaaacttatg gctatttgaa aaatcatggt taaacggttt tacggaaaaa 360
 aattagctac gggaaaag 378

<210> 8514
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-B2

 <400> 8514

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 aaggcgggtgc tgatccgcgg gttcngtggc caggcgaatg caatgtaccc gccctacacg 120
 gcagagaaac agaggatctt gaggggcctc atcanaggca ctttctttgc gctgacctt 180
 gcgctcctgg ggttcccaag ggagaagcgt tagctgagtt gagctccctc ctttctccag 240
 tagagcatag caggattggt catgttcatg agggcgatgt ggtgcacttc tgactgtga 300
 agcgccagtg cgcgagtgtg ttcaacaggt gtaaaatatg ggactatcat cggatttctg 360
 gatgtaattt aattttacat aaataaacct ggtttgcc 398

<210> 8515
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B3

<400> 8515

cggggaccaa aaacataccg gagtgaccgg cacggggacg cacgacatcg gcgagaagaa 60

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cgctggcacc tacgggcagc agggacacgt cgccacgggg acgcatggca ccccggcgac 180

cggtggcacc tatggggagc agggacacgc tggagtgacc ggcacgggga cgcacggcac 240

cggcgagaag aagggcctca tggagaacat caaggacaag ctccctggtg gccacggtga 300

ccaccagcag accggtggca cctacgggca gcagggacac accggcgcg cgacacatgg 360

caccccggtt ggcggcgga cctatgagca gcacggacac actggga 407

<210> 8516

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B4

<400> 8516

attcccgagt ccacggggtc attgaaaaga tcgacggagt gtgcacggac gctaaatctc 60

atgtcagaac aatgtcaggg acatcgcaa cttcattgat gtagcactga tgatcattga 120

aactcacttc tatattatca tgtcagggtta gacccaatat agtgaccctt ccagtcagtc 180

gagaattgca taaagaaggc tacacccttg aggagtcctt tacatgcac tagaggttta 240

ctcactacat gatacgtgct ctagacttca gcatcatagt agatatgagt cccacggtt 300

ggattcaaca caatcattct gtgctttagc caccttttga gagagacaca catgattcag 360

aactt 365

<210> 8517

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B6

<400> 8517

cggacatcgg cactgcgccg tgttgccctg cacaaccaag gagaacctaa aaaatgccag 60

gaaaaggaaa actccgttcc ggttaatggc ttcaaccaag cctccctcc aaaaggggca 120

acgcttgacc ctgaccaaga cccaagtac caccgtaacg caaataatga tgatgggttg 180
 ccaaagtagt atgtcctccg ggcaaggctt aatctgcttc ttcaaaaatt ggctgagaat 240
 gaccccaacc cgtatgggac accccaacg aagaaagaag cagtctaaac cctgcccacg 300
 gtcaaaatct aagagggttg caactgttca atctgtcttg atgatcttga tataagggtcc 360
 caccgctaagc aattgccctg tgaacataaa ttccaccac catgtatcct g 411

<210> 8518
 <211> 323
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B9

<400> 8518
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 tgggccctgg ttgctcgct cgcacgacct caaggaaaga acagctgttt tcttcaagg 120
 attcaagaac aatgacacca gctatgtcgt cctcatgtgc aacgacccta caaggctcgtc 180
 attcgagtcg cagatctaca ggccgacctt cgccggcttc gtcaacatcg acataaccaa 240
 gaccaagaag atcgccctca ggacattgat cgaccactct gtgggtgaaa gttttggtgc 300
 cggcggcaag acgtgcatcc tga 323

<210> 8519
 <211> 195
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-C11

<400> 8519
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 gaatttaacc aaaaaatcat ttatactgga aatggaacag tcccgttcaa aggatccatg 180
 ctgacaaatg cctca 195

<210> 8520
 <211> 377

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-C2

<400> 8520

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 gcagtgaac gtgatcacg ctccaacctc cgtatcgctg cgcatacagg tgacctgac 120
 ctctcaccat ttactcact ctctcagcaa gtcocgccat catgatcctc tgctgtgang 180
 gggaatccgc tgtcgagcac aagtcctcgt gtccatcacc gaggcacat catatcctca 240
 caccacggca aatggtacac acatactacg cataatgagg ggatgtacgc tattgcagaa 300
 tggcacggtc actctcccgt tttacacact ggccggacct agcctcccaa ccccaaaggc 360
 cttagccctg ctgacc 377

<210> 8521
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-C3

<400> 8521

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 aattcttttcg gatcgagtcg gagtttgagg aaatcatcta tcaggatgtc cttcggacct 120
 cggggcattt ctacctcaa aatcaggagt caaatagtga catcgagaca atgcaacaaa 180
 tgcaggatga caacgcccgt tctttcatga ctcccaggat acagggcggc ttcacgaga 240
 cgccggtccc ttgattcgag ttgtctagtt ctgaaacacc gattgggtca tgttgaatt 300
 aaacattagt gaactgttac tatgtctctt tggttttgag agtcgttcaa cttagaagta 360
 atcgatgcta tcaaagtctt gcttttctct tccgattggt ctgttgata agtatatat 419

<210> 8522
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-C5

<400> 8522

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ctcgtctcttc tcggcgttcg caagagacgg cgtgacctgt gaatacatcg agtgcgggcat 120
gtaacatagg caaatagcct gcctgaagag tgagggagag aaaacctgca tagatTTTTgt 180
tctggcggttt ttgtgtgtgt ttctagtgat tgtttggggtt tattttccgc gcttatggat 240
gtacattaca ggtatataag acagcatagt gatgatgtct tcttcatggg tatggaagtg 300
aaagtaatgt tatggaagtg aaagtaatgg tatgaatgct gtcttcatgg ttataagaca 360
gcatagtgat gatgttttag atacaanana aataaaaaaa aaaaaaaaaa aaaagcgggc 420
gctct 425

<210> 8523

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D10

<400> 8523

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gccatcatga tcctgacggt gaagcgcgac aacatctgca gcttcatctc gggagaccaa 120
ccccgggcac gtgcggtctt gggagaccaa ggacagccag ctgacgatgg tggcggacga 180
cctgaatccg cgggcggtgc tgacgtgccc ggagaagaag atgatccagc agatggtggt 240
cgccagctac gggaaccgcg tggggatctg cggcaactac acgtttggca actgccacac 300
gcccaaggcc aaggagattg tggagaaggc gtgcgtgggg aagaggagct gcctgctggc 360
cgtgtcgcac gaggtgtacc gcggggacct caactgccg ggcaccac 408

<210> 8524

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D12

<400> 8524

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acatccgtat tggagcgaaa ttggaatgga cccccctta aaaattttcc cggggaatga 120
 atgaaacaaa catggctgat ctgacaagcc ccaagttgta aagtgtacc aaatatatgg 180
 tttcggttgc cgtcttcta gagaggtttt aatgttcaag tggagttata cgtgttttg 240
 accacggcgt ggttgaatc gttttcgcgt tttaccagcgt ttcccctaac tagtcgggtga 300
 tcttgcggaa gcaagaggag atataatcac tgcaaatttt ctgccccaaa a 351

<210> 8525
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-D3

<400> 8525
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 tacgcatagc tatctggcgt cggcctcaac tcgatcgcag aaggatgcaa ggacctggag 120
 gtcttgacc tgtttggtc cgcgaatttg acgagcaggg gcatagagca ggctgtgtct 180
 aacctgaaga acctggagat gctggtgaag cccaactttt acataccgag gtcggccttc 240
 cacatggaga ggtacgggca ctggcagtta tacgacgaga ggttccagac aaacgtattt 300
 cagatatgaa aagaacaacc ctggtgttct cagggtcgcc tctgactgac aacgtctcgc 360
 atgctcgtta ctgttatata ctgtatgtgt a 391

<210> 8526
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-D5

<400> 8526
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 gccagtctca ccgagtcgct ccgctcatc tccggcgctc tcgaggtcca tccgtcaagc 120
 ccgcccga agaggtcaag gggatccccg ccccgagct caagaccatc ggccagatcg 180
 acgccccta caggaccgcc gccaccgcc cgcagctgc cccggtcagc gacaagttca 240
 ccgtcttcga gtccgccttc aacaaggcca tcaaggagac cacgggcggc gcatacgaca 300

actacaagtt cgtccccgcc cttgagtcgc cgtcaagca tgcctacgcc gccaccgtcg 360
cctccgcgcc cgaggtaaag tacgccgtca ttcaggccgc cctg 404

<210> 8527
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D7

<400> 8527

cgggtcaaaga ctcccggtc gacggggttg agcaaactag gaaaagaatt tgaaaacgat 60
cttggagaag acatttgact gatgataaat cattcttacg tcaaactttg aaaagaat 120
gcgaatacct ccgggaaaat aagaagagtc aggtaagatc ctggaaaaga catgtgggtt 180
agggccact caaaagaaac accgtagaac gattgcttga aaagagagag agcgccggtt 240
gaattaaatg gcttgaatga gataacaacc tcgaaatatt ttgaactgat cttgaaagac 300
gagacgagcc ttttgagata tcttgagcac tccgggacaa tagaatagcg agagatgaac 360
gattaagaat tgcaccggca tgagaaagca ttgaaatagc gaaaagaata tgatcacaca 420
ccgaaag 427

<210> 8528
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D8

<400> 8528

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atcctcagca agcttcctag cagccagcct tgattaccat ctgaattcac tgtggaaaac 120
gcaagatggt ggctattttg cttgccgtgc aggattcgct acagtacatg gtgtcttgcg 180
ctatatggaa gggctgaagt tgagctaggc attgttggcc atctaaatga gataagaacc 240
agcgttggag actgtataga cttgttttgc ggagccctct aagtgtcatg tttcgagtaa 300
aagtaggtta cttttgcttc ttgaagctgt cattgtttgt ctgccacgag ggctgcaatg 360
tggaatggtt tgccacaaaa agaaagcaag cgatttttgt gtgctcaaag tcagttttgt 420

<210> 8529
 <211> 269
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-D9

 <400> 8529

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 tgcattaaaa ccccgtagata cgatatgctc tatcacacat aagcctcatt atatcttcct 120
 caaaccagcc accataccta cctatcatgg catttccata gccattccga gatataattgc 180
 catgcaactt ccatcatcat catatacatg acttgagcat tcattgttat attgctttgc 240
 atgatcgtaa gatagctagc atgatgttt 269

<210> 8530
 <211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-E1

 <400> 8530

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 cagatatgct gctgtcagca gtcctctcta aatagacact gcaattatcg tataagtaca 120
 tcattgctgc tgtcagcagt gctctctaaa tagacactgc aattatcatg tacatcattg 180
 ctgctgcaat gaaccattaa gaattattta aaatctagcc taccatctgc gttgtcgtca 240
 acagaggggtt gaggcggagt taaaaaatct gtatgagaaa ccgagggatt gtccgagtca 300
 gcgacatctt tggtatcttc agagctgtca gaagcagctg agatggcgctc acctgattct 360
 gaatgtgttc tgtccacata tgc 383

<210> 8531
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-E11

<400> 8531

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aaggatttca tcaccgacct aggagtcata cccaatgcgt cggggccaat caaactcttc 120
tgtgacaaca ctggagctat tgcccttgcc aaggagccca ggtttcacaa gaagaccagg 180
cacatcaagc gtcgtttcaa ctccatccgt gaaaatgttc aagatggaga catagaaatt 240
tgcaaagtac atacggatct ggatgtcgca gatccgttga ctaaacctct ctctgtgagca 300
aaacatgata aacaccagaa ctctatgggt gttcgattca tcacaatgta actagattgg 360
tgactctagt gcaagtggga gactg 385

<210> 8532

<211> 386

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-048-Q1-E1-E3

<400> 8532

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ttcaatcagg gaatcgtgcc ttccacagtc tggggattca anaaggaaat tgaacccgac 120
gcacaaccgg aagccaaggt tctacaccaa ggtgtttaag gaatgccact cctatgacca 180
agaggggaat tcctttgagc tttctctggt aacttccaag tgcattggag cttatgtgaa 240
aagcaagaag aaccagaacc agatatgttg gctgtgggag aaggtaagt gcacagaaga 300
caaaggcttt cagagattcc tggacaatgt gcagtacaaa tccactggaa tcttgcgtta 360
tgagcgcgtg tttggggagg gttatg 386

<210> 8533

<211> 160

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-E4

<400> 8533

acggaactct gaagagaaca ctaacctttt tgattccgcc atggcaaagg gaaagcaaac 60

cgtaaagaag tgaacaagaa agaaaaggca aattaaattg caaagggttaa attggggaaa 120
 agaaaaccaa aagcaaattg caagttataa aatgccaagg 160

<210> 8534
 <211> 372
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-E5

<400> 8534

cggggtcgac cgaggagagc tgagctgacc aactggtttg cgccatgtca taaccgctcg 60
 attgcggcag ctcatggcaa ctcatgacc tgcagcatag aatctccatg ggagacctgc 120
 cgtctggttg cacacttcaa tcggcataca acagatgacc cgttcatcag actgtataca 180
 aaggccaacg atggctcata tatcgatcac aaggagatcc ccctgggttg gcatcactac 240
 gacgcggatt gaaacttcgg ttcatgccag gcgaatgagc tgctcaacca tctcgagagc 300
 gtgatcgcta acaaccgggt cgtcgtgaat acgtgccatt acatcgtggc ggttcacact 360
 cagggcatca gc 372

<210> 8535
 <211> 345
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-E9

<400> 8535

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 ggtaaacctg gcccgaaaca ccaaacccaa ccgggggataa ccaccaaagc ggggtgtgga 120
 aaaatagaaa aaggaatttc tcgataagtt gatttcgagg taatatttgt tctcccgct 180
 cggttcattt gctgtataac catcaaactc ttgatataca gagttttgtg ttttaacttc 240
 cagtgtgtgt gttcatatat gactaatata ttctcccca aatgatataa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaggataag aagggt 345

<210> 8536
 <211> 377
 <212> DNA

<213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-F1

<400> 8536

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cacgaacggc cagaccaacc tcagggacaa gatgatggac cactggaaga tgcacaggag   180
gaatgagaag atgctggagg aggagcacia gctgctggct ctgaggatgc accagcagga   240
cgacctgagc agcggcatga gggagatgga gctcgggtac catcanggta nggatttcac   300
ttcccagatg ccgttcacct tccggctgca gccagccac cccaacttgc angaagacaa   360
gtatgccacc gaatcct                                     377
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<210> 8537
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-F12

<400> 8537

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ttgatatttg tattagcagg tttgagtttt gcatgtagtc tactccattg tggagttcgt   120
ccgacgaaag ctttatgtga tcgcgccaaa gaggtgagat gccagaacgc cgtgtgacgc   180
ggcgagcacg gcgagatgcc gatgggtgctg cgttagaagc ggcaagacgt atcacaggct   240
ggagccgtga tggactgcat caaattgggt cgggtgaacc ggccggtcgt tctgtttggt   300
ggactacctg ttcctgcgtg agttcgttta gtcctagccg agagtatcgt tgctagtact   360
tgatgcatgc atgtagttgg cctggtcaca agtggttacc g                                     401
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<210> 8538
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-F2

<400> 8538

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ttcttcaagg gaaagggcct taaaccgaac aacttatcac ggtcccgttg aaggattttt 180
ggcggggcct attctgcccg cggccagaca gggaccgca gcagcgggtt ttggccatga 240
gctgggtcca ctacgaggct tgcaacaacg cggagtacgg gacgaccgct aaggccgtga 300
tcaccaaatt ttgggtaagt tctcttctga atcacttgct ttcagtttcg ttcatagttt 360
atcattgaat cactcaactc atgccttggt tgcctccggt ttttgcattg 409

<210> 8539
<211> 272
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-048-Q1-E1-F3
<400> 8539

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ttcgttggtc gttatgagta atatataac tcttgggat taataaatca tgggaagata 120
aaagcacttg gcgtatacgt atttgacgtg ccaaactctg tgtatccagt gtgtatcgg 180
gtacgcattt gagacttcca aacgcgtagc acgtgtgaaa gtaattgcat ctatagccga 240
cttcacaaaa gaaataaaag aaaaaagaca aa 272

<210> 8540
<211> 378
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-048-Q1-E1-F9
<400> 8540

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cattaagcat ttcaaatttc tttttgacag taggtagagg tatttgaaaa cttccaatag 120
tgattgtcgg agatttttca ataacattaa taccattcac ctggaattgt ttcttcgaaa 180
agtgcaccgt atgctcatta ccattgatat gaaaagtgat cttgctttta ttgcaatcaa 240
taacagcccc tgcggtattc aagaagggtc taccaaggat aattgacatg ttgtcgtcct 300

cgggcatctc aagtataaca aaatcagtca aaatagtaac attagcaaca acaacgggca 360
catcctcaca gataccga 378

<210> 8541
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G11

<400> 8541

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tttggccttg gtttaggatg gggctttgga actgcttatg gttgtcaata tcgatcttca 120
agggtccagt ttcagggcat tgagtttcag aaaaagtctg aaggagatga agcaccaaag 180
cttgttgaaa agtctcgtcc ttatggctag tatagctgcg atcatacaat tggcacaggc 240
aatgttacca ttgccccctt gattgtagtc aattgtctac ctggaaagtt gtttgaaagc 300
attttgatgt tttgatgaac ttggacgttt tcatggtaac ataatgagga taatccatgg 360
tacttttttc gtttcggaaa aacaaaagaa acacaaa 397

<210> 8542
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G12

<400> 8542

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ccgggagcca aggttttaca ccaaggtggt taaggaatgc cactcctatg accaagatgg 180
gaattccttt gagctttctc tggttaacttc caagtgcatt ggagcttatg tgaagagcaa 240
gaagaaccag aaccagatat gttggctatg ggagaaggtc aagtgcacag aagacaaagg 300
ctttcagaga ttcttgaca atgtgcagta caaatccact ggaatcctgc gttatgagcg 360
cgtgtttggg gagggttatg tcagca 386

<210> 8543
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G3

<400> 8543

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 cataatgctg gaacaaacaa agctgctcat agcacaacat cgctcaatac aaaaaggctt 120
 gatgatgata cagagaatct tgctcatgag cgtgtgccgt cagacctgaa gaagagcatt 180
 atgcaggcta taacggacaa taggctcaca caggcacagc ttgcacagct gatcaatgag 240
 aagccacaag tcatccagga gtacgagtca cgcaatgcta tcccaaacca acagatcatc 300
 ggcaagctgg aaagggctct tggcacaag ctgcgaggca agatgtgaag ccgctgcat 360
 ctgacaggag tcgaggcttt caacagagct tggctgggca agtttaccgc taaataaag 419

<210> 8544
 <211> 310
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G4

<400> 8544

gtaggagtga tatgtcaagt agtggacaga taaccaacc actggatgtg gttttcaggg 60
 atttttgcag tgggatttgt agggactat gctgcgctgt gtttgggatt tgaaataaaa 120
 cgatgggaga tgtgccacgc tcttaaatgc cagtcttctg ctctaattctt gccaaattac 180
 ttgttgcaat ttggaacttg gccaaaaaaaa aaaaaaaaaa ataaaaaaaa acaacaaac 240
 aataaaaaaaaa aaaataagaa aaacaacact tgatgaaaaa aatttcatta aaaaagggc 300
 cggttccaaa 310

<210> 8545
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G6

<400> 8545

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 tgtcaatgga tgaggggtgct tcaggatctg cagctgtggc tgatgctgct atggcagaag 180
 ctgctgcaga tgaccaggat ttggcattgg ctcttcaaat gtctgtccag gacgcagagg 240
 tggctgggtca atctgatatg agcaaagtgt ttgaggacag gtcatttgtg acatccatcc 300
 ttaattcgct tcctggtgtt gaccccaatg acccatctgt gaaagatcta ctggcttctt 360
 tgcattggcca aggagagcag gaggagaaga aagataagga ggacaagcca taca 414

<210> 8546
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G8

<400> 8546

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 acatagtcag tggtgcaaaa acatagctgc ttcaaaaaca tccctcgtgc ttcaacaaga 180
 acggcagagc tgcaagacaa ggtaaccgct atggcgggat gtttctgaaa catggcctat 240
 gttgcagaag tccacgagac catgagaaat aaattccgca acacaatctt tggtgcaaat 300
 atttccgtta cagagctct gttgcaaaga tccgcaacac aatctttgtt gcaaatgttt 360
 ccgcaacaca agctctgttg caaatgcttc tgcaacacta cctttgttga aaa 413

<210> 8547
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-H10

<400> 8547

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 tgatcctttt atagagcatg atcaaaagtt cagagctcat gtgtgatccc cacctgacca 180

taggtcaggt tatagagctt tgttgtttgc tggacattgt agtgtgaaca ttgtgtgtgt 240
 cttgtgtgac atgtcaaagc tgaagcggag gtgtgaactc ggtgtggtag aagaccactc 300
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 acag 364

<210> 8548
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-H2
 <400> 8548

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 tcttctgtga caaactgga gctattgccc tcgcaaagga gcccaggttt cacaagaaga 180
 ccaggcacat caagcgtcgt ttcaactcca tccgtgaaaa tgttcaagat ggagacatag 240
 agatttgcaa agtacacacg gatctgaatg tcgcagatcc gctgactaaa cctctctcgc 300
 gtgcaaaaca tgatcaacac cagaactcta tgggtgttcg attcatcaca atgtaactag 360
 attagtgact ctagtgcaag tgggagactg t 391

<210> 8549
 <211> 226
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-H3
 <400> 8549

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 aggggacaat ctttattttt ggttacatgc tgattacaga cagtgtactg gttctgtcga 120
 ccgaactatg gagcatgtct ttgtcatggt caattgattt ttcttcttca ttctgctgta 180
 ttactgacct tgatattcaa cctgaagtgg gtgggtttat tcctcc 226

<210> 8550
 <211> 379

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-H4

 <400> 8550

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 ccattcgatt tcaagacgga tgaggagcag gtcacaaag ggctggacac gacagtgtc 120
 accatgaaga aaggagatgt cgcgtcagct agaataccac ctgaacatgc gttcgggtcc 180
 actgagacga agcttgatat tgctatggtt cctcccaact ccaccgtctt ttatgaagtg 240
 gacctcgttt ccttcgagaa ggagaaagaa tcttgggact tgaagagtaa tgctgagaac 300
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 gccaaaggctt ccaagagat 379

<210> 8551
 <211> 266
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-H7

<400> 8551

cccgggtcga cggggagcac aagaaggacg gcgggcacca cgagggcgtc agcgagcaca 60
 tcaaggacag gatccacagc gacggcatga tggacagcat ccacgacgag atcaacgaca 120
 acagccacag caacggcaag aaggacggcg aggaccacga ggacaacgac agccacagca 180
 acaacgacag caaccacgac aacgaccaca ccgactccga cccgcactcc agcagcatca 240
 acgecagctc catcaacagc acctgc 266

<210> 8552
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-H8

<400> 8552

tccgggtcga cggatagtag taataaaaag gctagtcaca ataatggtgt ccagcacaac 60
 ccaccctca aataaaacta agggggtgct tggatatggt ttagtcccat gactaaaagt 120

agtgggacta aaacatgcta gcctcaccca tgcttgatc cgaataactaa aaaggctaaa 180
 atcaagttaa tgagcattta ttatcctcca aacctccaa tccataactc gcctgtgtta 240
 aaggagagga gttaaagac tagagagagg actaatccac attttactag ggttaccct 300
 gactaaattt ttttagtctc aagactagtt ttagccccctc ttttagtcagg ggtgcttgga 360
 actttagcct cttaaagaga ctatttttag tcagactaaa at 402

<210> 8553
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-049-Q1-E1-A1

<400> 8553
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 ctacttcgcg gcaggatagc ccggcccgtc cagagctcaa ttaaactc cggcgaaggc 120
 taggacaggc cgcataccgc ggctcaaccg ctctccggca cacaacatt ttttacattt 180
 gctttgcagg ttcacctttg caccgaccag gactggcgat atggaagcaa ctogaatgcy 240
 caagggaatc cttagatatt ccccgagtg accatccgaa tatactctgg atccacacac 300
 agcttcttcc cccctgatct cagcagggtc cacagtcata tccctttttt tatctcatta 360
 cctgtcctca tacgcatcaa cgtactattc aaatacaaca tatggattta tatgacgctt 420
 atctgc 426

<210> 8554
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A10

<400> 8554
 gacgggcaca taaacctcct tatactctcc tcaaacagc caccatacct acctattatg 60
 gcatttcgat agccattccg agatatattg ccatgcaact ttccaccatt ccgtttatca 120
 tcatgacaca catcattatt gtcataattg ccttgcatga tcatgtagtt gatatcgtat 180

ttgtggcaaa gccaccatgc ataaattttc atacatgtca ttcttgattc attgcccac 240
 ccggtgcacc gccggaggca ttcacataga gtcataatttt attctagttt tgagttgtaa 300
 ttcatgagtt gtaaataatat agaagtgtga tgatcatcat tattagagca ttttcct 358

<210> 8555
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-A11
 <400> 8555

gacgggaagg tcaatactga tatgcttggc cccacgcgta gtagtcttct tcaccctgca 60
 aaaaaataaa gcacatgaaa aaggatttaa aaatgaacaa aaatatgttt gccttggtag 120
 aaatcttaaa aaaatgaaaa acaagtggaa aggctggtag ttgccatgta aggggaacgt 180
 gagttgccat gtgtcataat tagcagttgc catccagcag cagttgccat gttagccaac 240
 ttgaagaatg ataaaaatgt ctaatctgtc atgaatacaa tttcaaacct aggtgtagga 300
 tgagctcaca agccaacggt aaagatggca gttgccatta ggtacattaa agttaccatt 360
 tggcctagat tccagttgcc atgtaaaaaa caataggagt tgccatacac 410

<210> 8556
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-A12
 <400> 8556

gacgggaaga gacagatttg cctaggggtt gtggcagtgg ctaagacatc tgaactctgt 60
 ggcgccggat agaaagaatc ggtggggccg agtttgactt taggtctagg tcatatgtgt 120
 ggaagtagtt gaggggtttg gagcatatca cgaagcactg tggagcaaga aactcattaa 180
 gcaacacctc atccctcctt gatagtactg gcttttccta tagactcaat gtgatcttgg 240
 atcactaaaa tgtaaaatga agagtcttga gcttgaagct tgagccaatc ccttgtcctt 300
 agcatcttga aggagttccc acatccttta gtccatgcca ctccattgtt ggacttgtct 360
 aaaatgtact aggtaaaagt gttagtccaa caagagatat gttgacatta 410

<210> 8557
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A3

<400> 8557

cgcgtaaaat ttgaactgta gctgcctcat agtttgctct atattttttt cagaaatcat 60
 ttctaggtac ataagtatct atttaacaga gaaacatcaa aagttttcca agatttaacc 120
 actagctagg aacgggtcaag cccgcccttt tgaccgcatt ttgaaaaggg cataaaaaat 180
 tcaaaaaaat caaaaaattg gaaaaccttc gcattgtgtc attatatgtg accaagtttc 240
 cacgaaaaat aataaatttg ttatacggaa attgttttta aaaagtgttc tcaaaaatga 300
 gttgtcatgc gtgaggattc atggctttca agccaaatga tcaatcttat ggccacattc 360
 atggcatagt ttgttca 377

<210> 8558
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A5

<400> 8558

cggaaggccg ggcacccgc cggccttcag gaacgccgac ggcgggtacg gcaccatcaa 60
 aaccggctac ggctacaagt acaccaggtt ggcgacaccc aaacgggtcca agaagaagag 120
 ctggttctcc tgcaccagct gccgattctg atgccgtagc tgcttgccgt cgttggtgag 180
 agagatccga tacttcgccg cgccacgacc agaagcacgc actccgggag gcgacggtgg 240
 aacttttggc gatcttggcg tttttgtccc tgctcggtcg ccgcacttgg cgtgcagagc 300
 atcatcgaca actgatggct cccgttcata tgtacgaata atttgtggcg aataaaaggg 360
 gggaagtgac tacaacaa 378

<210> 8559
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A6

<400> 8559

gggtcgacgg aaattgcaaa cctaacgaag ctcataatca ggtggttgaa gtgaatgtca 60
aagtcgaaag tgcaggcaca aataatgtgc acaacaatgc tttctatgct gaagaaaaaa 120
tactgaaatc cgagttgcaa gcaatgagag attgtgaccc ttcattctgcg cggcattgga 180
ttgttaggaa cacaagggct gtaaatcgta ccggacaacc aactggtttc agactcgtgc 240
ctggttcaaa ctgtttgcc tttgctctgc ccgaggcaaa gtttcttcga agagcagggg 300
tcctaaagca caatctttgg gtgacaccat acaagagcga tgagaagttt cctggagggg 360
agttcccaa ccagaatcca cgtcttcacg agggtttggc t 401

<210> 8560

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A7

<400> 8560

ttgaaaatct gattggcaag attctgaagt gtctgatgcc cgggtgggcac attttcatca 60
gggagtcctg cttccaccag tctggggatt ccatgaggaa agtgaaccg actcactacc 120
gggagccatg gttttacacc aaggtgttta cggaatgcca ctcttatgat caggatggga 180
attcctttga gctttctctg gtaacttcca attgcattgc atcttatgtg tagagctata 240
tgaacttgcc cagatatgtt ggctatggca caaggtcaag tgctacgaag acaaaggctt 300
tcagatattc ctgtacaatg tgcattacaa atctcctgga atc 343

<210> 8561

<211> 350

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A8

<400> 8561

gagcacatga tcgccagctg catcaggttg gcatgtttga catgatcatc gacaacatca 60
gtggggctcgt ggcagccata agcacaggaa tgaccatgtt cacattaagg ccgatgagca 120

cagcatagaa cgatggtgag cactatatgg tcggcgagca catggatggc atgttgagaga 180
 ttatcttcgt taagatcagc ggccattgcc actgtgaccg catgaacgac tgtgaccaca 240
 aggatattaa tgtctataac accaataacg tcaacattca ggcgagggcc atttgagcga 300
 ttacggccac ggcatcatca gcatctacag cgacatcgac tgagccatct 350

<210> 8562

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A9

<400> 8562

gtcattggtg tcgggggtga aaatgaagtt catcatgtga gagaaagtcg ggtgagcgtt 60
 gactaggcca agtgacatga cagtgtattc ttatgtaaca tatcttgtcc tgaaatgccg 120
 tcttggaat atcttgctca cggattcgaa tctgatgata acccatacgg tgatcaagct 180
 tggngaatac ttgggcacct ttgagttggt caaacagctc attgatgttg ggaagtgggt 240
 atttgctctt tatattcttc ttgttcattg gacggtagtc aacacaaagc cggccattc 300
 catcttctt cttcacaaac agaatttcac aaccccatgg agaagagcta aggcggatga 360
 aattcattct tt 372

<210> 8563

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B11

<400> 8563

ccgggcccgc ggcaaggaga agtacgcctt caacggcgtg tcccacaccg accccgagac 60
 gccgtcaag ctgcgcgagt acttcaacgc caccaaggga gtgttcgagt acaacctcgt 120
 caccgacacg ccgcccgaagg agggcacgcc catcaaggtc gccccagcg tcatcaccac 180
 cgagcaccgc acctacattg agattgtctt cgagaacccc gagaagagca tcgacacctt 240
 ccacctcgac ggctacgcct tcttcgccgc cggcatggga ccggggctat ggtcggtgga 300
 gagcaggaag acatacaacc tcctggacac ggtgagccgg cacaccatcc aggtgtaccc 360

gaggtcgtgg acggcgggtga tgctgacgtt cgacaacgcc gggatg

406

<210> 8564

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B2

<400> 8564

gtccatagtt gattttttaca atgctctttt gcttcactaa tatttgtag agcgtgggca 60

tatcttttgt aaaaagaatt aaactatctt gcttcactta tatctattca gagagatgac 120

aggatttggg cattcacatg gttagtcata aaatcctaca taaaacttgt aaatcgctga 180

atatgatatg tttgattccc tgcaacagtt ttgcgatata aagatgggtga tattagagtc 240

gtgctactgg ttagttgtgc gttgtagaaa tacttgtgtt gaagtttgtg attccccgtag 300

catgcacgta cgggtgaaccg ttatgtaacg aatttggagc atgaggtatt tgttgatttt 360

cttccttagg agtggcgggtt gg 382

<210> 8565

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B3

<400> 8565

cccctgaaag agagagatca ccgggttata tctggcactt ggaaggggtgt gttttattaa 60

gtatccagtt ctagttgtca taaggtaag gtacaactcc gggtcaccc tttaccgagg 120

gacacgacta ttcgaataga taaacttccc tgcaggggtg caccacataa cccaacacgg 180

tcgatcccat ttggccggac acacttttct gagtcatgcc cggcctcgta agatcaacgc 240

gtcgcagccc caccaaattt ccgccgaagc agaaaaagca tcgtctcgtc tcgtctcgtc 300

gaggaatcaa cagccatggg cggcggcaac gcgcagaagt ccaagatggc gagggagagg 360

aacctcgaga agctgaaggg cggcaaggg 389

<210> 8566

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B4

<400> 8566

ccgggtcgac gggatgcagg aattcctcgt cgaattccgc gggcccgaag agagtctcta 60
ccaaggaggt gtatggaagg ttcgagtaga actgcccgat gcgtatcctt acaggctctcc 120
gtcgattggt ttcgttaata agatataatca cccgaatgtc gatgaactgt ctggttccgt 180
ctgcttggat gtcattaacc agacatggag cccaatgttt gatcttgtca atgtgtttga 240
agtcttcctt ccgcaacttt tgttatatcc aaatccctct gatccattga atggagaagc 300
tgctgcactc ttgatgcgtg atcgccctgc ttatgagcaa aaagtgaaag aattctgcga 360
gaaatatgcc aagccagagg atgcgggtat aaccccagaa 400

<210> 8567

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B5

<400> 8567

cggaatcca caacgtgtcc acggagccgg cggcgcaaca ggaggtggag ctgccggagg 60
gcaccacccc ggcggtggcc atgctgacgg tgagcacgct gccgatgctg gcggagctgc 120
ataagatgga gcatgagatc agctcgccca ccccgcgcaa gggctacatc aaggctttct 180
gatccgatcg agatgaccga tgcacgcacg ggcgcatgca ttcaggagat gaatcaatcg 240
ctaatgattg gcaaaccgac cgccagcaga gatacgttta tatagttctt aatttcagtc 300
gttcgtttgt aatggtctgt actagtagca cagtcgtgtg tgttgttgtc atccatgggt 360
ctgatatacc gg 372

<210> 8568

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B6

<400> 8568

ccatgagtga tttttacaat gctcttttgc ttcactaata tttgttacag cgtgggcata 60
tcttttggtta aaagaattaa actatcttgc ttcacttata tctattcaga gagatgacag 120
gatttgggtca ttcacatggt tagtcataaa atcctacata aaacttgtaa atcgctgaat 180
atgatatggt tgattccctg caacagtttt gcgatataaa gatgggtgata ttaaagtcgt 240
gccaatgggt agatgtgctg tgtagaaata attgtgttga agtatgtgat tcccgtagca 300
tgcacgtttg gtgaaccgtt atgtagtgaa gttggagcat taaggagttg ttgattttct 360
tccttat 367

<210> 8569
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B7

<400> 8569

cggaattaga agttgtaaat atgcattggt gtatcgcgac ctgaatgaat gaaataaacg 60
aaataacgct cttgtacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaggggcccc caaaaagatt aaaactaat tacccttaaa tgcaaattaa 240
aaacccttca aaagggttaac caaaattaaa ttaaaggggc ttctttttaa aaattcgtaa 300
cgggaaaaac cctgggttaa ccaaattaaa ccccttgaa aaaaaacccc ctttcccaaa 360
gtgggttaaa accaaaaa 378

<210> 8570
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B8

<400> 8570

cgggggctaa taaaagaagt aggaggtgtg gagacagact taggaaccga aaggttttag 60
gcttagtaga attaaaactg agtttgtgag gtgtgggttc agtactacta gccacaagga 120
ggaggttagc cttgatgggc aggtgatacc tcagaaggac aattttcgat attaggggtc 180

aatgctgcag gatgatgggtg atatcgatga agatgtgagc catcgaatca aagctggatg 240
gaagaaatgc cgccaagctt cctctgtgac aatagtacca caaaagctaa cattgcaggt 300
tctataggac agcgattcga cctgcgatgt tgtatgaagc agaatgttgc caaataaaaag 360
gcaacatgtc caacagttag gtgtagcaca gatgcgc 397

<210> 8571

<211> 375

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-049-Q1-E1-B9

<400> 8571

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aagcatcaca ttaactatctt cagctacggg cttaatcaat atatatttac ctgaccggac 120
tcggttcggg caatggagca gtctgcacgg tcaccatctt gtacctccat tgtgtcacct 180
gagcactcgg caggggtctcc ttcttgtacc tccactgtgt caccgaacct atcatgaaaa 240
tagtcctctt cttgtaccag cattattggc ccgaanccat tattagcata gccctcttct 300
tcagccagtc cttccagctg actatcactg tcgatgacaa atgacgcaac ttcatcactt 360
ccatttgcca ttatg 375

<210> 8572

<211> 399

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-049-Q1-E1-C1

<400> 8572

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ctgcgttttc gttgtggtga agatggcgat atcgatggag cgcaggaaga tgaagcccgt 120
ccttgctctc gtgctgctgc tgtcgtgcca tcttcttctt ccgctgggtct cctccgtgcc 180
tgtgtcgagt aagtgtttga cctccaacct catgcacgca tgcattggacc ttactttaat 240
acagttcatc ttctttcttg ggatgtgtat gtgcatgcat gcatcttaat tttgagcctt 300

gctctcggat gtangaagcg tggccttggg aaatcatcta gcctcagctt ctagtctaac 360
tctggaggcg ggcctgttc aggtcaatct ctcaacteta 399

<210> 8573
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C11

<400> 8573

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tgatgaaatg acaggataat tatggggtag tttttgactg cgttgacatt tacaagcagc 120
ccgcattcga tcaccctctc ctgaagaacc acatactaca ggtcaccatt ctatactttc 180
tatctttact gtcaaaaaat tgtaggaatt tttgttgctt tttgaaacat ggtacgaatt 240
cttgatgtaa tcagtttttt tagtcatcga tgtcagattt acagatctat ccgcccttgt 300
attagactct gacgtgtcct tgtagtattc ccgagcactg tggttgatac ggcacatacc 360
atagcaaatg gctctcga aaacaacggc actatagttc tatttcccac t 411

<210> 8574
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C12

<400> 8574

ttcccggttc gacctccgcy gacacggtgc agcgcgatgat ggcggagatc gacaccgacg 60
gtgacggctt catcgacttc agcgagttca tctccttctg caacgccaac cccgggctca 120
tgaaggacgt cgccaaggte ttctgaatca gttcatttca cctcagccgt ccgatccagg 180
agccgatcca tctacgtacg gtttcgcata tcaatttcat gcaactacct actccggtcc 240
cgatccagcc tcagcttcac ctgaggccgg ccctaatttt gtttgatcat ttttttttgc 300
taccagtagt aactagtgat gatcactgtt ccatcattta tttattttat atcatcacia 360
gtttcttttc tttctctacc tttttgtcga tcgtcggctc cagctcgatc caacgatcca 420
tgctg 425

<210> 8575
 <211> 395
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C3

<400> 8575

cggggctttg agagggtttg agaggggttt tgaggggttt tgagagggtt tgactgatta 60
 ggggtgagca taactaattc aaaaaaatc aaaaaatat aaaacttggt cacatagtct 120
 tattatgtcg tatagtaacg agaaaaaaaa tataaatatg gtttacatac atttttacga 180
 aaaatccttc aaaaaattgt tattcctcaa acaatgtagt atggagttga agggagagag 240
 tagtgggcac ccgagagtag gtggagtttt aaaaatgaaa agtgtgaaaa ctcaccaaaa 300
 acttcatttt ggattgacta agaaagatct gaacttactt ttctcatttt catgttttaa 360
 acttgtttta tatataattt tctattaaac cttgt 395

<210> 8576
 <211> 397
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C4

<400> 8576

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 atttgctaga atatgctatg tgcttcactt atatcttttg agcttgatag tttttgctct 120
 agtgcttcac ttatatcttt tagagcacgg tggtgactta tttttgtaga aattgctagt 180
 ctctcatgct tcaacttatat atttttgaga gtctttttaga acagcatggt atttgctttg 240
 gttataaaat tggccctaga atggtaggca tccaagttgg gtataataaa aactatcata 300
 ggaagtgaat tggatgctct ggtcaatttg atacttaata attgttttga gatatggagg 360
 tagtgatttt aaagtcatgc tagttgggtg attatga 397

<210> 8577
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C5

<400> 8577

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accatgtcag taagaccctg ttgctttttt tgatagcatt ccagtaacca ccgatggacg 120
agaactttgc ctattgggtcc gtctcgttca atgagcagga aaatgggttct cttcgtccct 180
cgcccttggg accaatgggt gttgccaaca taatcgatag tctatcctct ggcattgcctt 240
gcttacatga tcatgcaaga cgtcatcccc cttccgactt ttaaccaca tgggtgggcc 300
ataaccaca atttcacagg atcgaaacct gactctcctg tacaccctgt tgtcaaagtt 360
attcccacgt ttgactttga cgtaattcac gggcca 396

<210> 8578

<211> 389

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-049-Q1-E1-D1

<400> 8578

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aaggcaatgc cgagtcttat ttttacaaaa gtccaggaag acaattgtac ttcgtcaaca 120
tgtgccattt gcttgggaaga ctacagtgtt ggtgaaaaga taagggtgct gccttgctgt 180
cacaagttcc atgctgcttg cgtggacctg tggctcacat catggaggac attctgcctt 240
gtatgcaagc gagatgcaaa tgctggaatg tcaaatttcc ctccatcaga gtctaccctt 300
ttgctttctt ctgctattcc cttgccagct gaatcgacag ctttgtcttc ttttcgttca 360
ttggtancag catctcctcc aaggacaat 389

<210> 8579

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D10

<400> 8579

acgggaatgt tgatgaggct tgcactgggt tgaatgttgc gggttatgggt ggtggattcc 60

ccaggaagga aggaatggaa aggaaggatg ttatgacgaa aaatgtttca atctacaaag 120
ctcaagcatc tgctcttgaa gctcatgcag cccccaattg caagggtttg gttgttgcca 180
accagcaaa caccaatgct ctcatcctga aagagtttgc tccatctatc cctgagaaga 240
acatcagttg tttgacccgc ctagaccaca acagggcact cggtcagatt tctgagaaac 300
ttggtgtcca agtttctgac gttaaaaatg ctattatctg gggtaaacac tcctcc 356

<210> 8580

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D12

<400> 8580

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tgtgaacgcc atcgccaaaa atgagccatg ggtacatgct aaacacgtca cataatgtgt 120
cttcataact gatccgatca atcacagccg tgttgtcgtg aggagaagca aaaggagcat 180
tgccgaaatg gatggagtcg ccaacgagga agaccacgac cagtacggtg atccgatgag 240
ggaagatgat gctgatgacg atgaaacata cgtcaaaaga agaacaaaga ttacattacc 300
tacgaaagat cgtaatccct ggagaaggaa aactcacgac catggggtca attattcgac 360
aatgaacaaa agagggaaga atattagtct aaagcgtcat cgtcgcccaa gctgacaaac 420
taatc 425

<210> 8581

<211> 311

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D2

<400> 8581

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cggttggaag agaattggcg agttgccaat agccggttgc aaaaaaaaaa gttcaaaggt 120
ggctggcctt tgaaaaaaaa ttaacgggtg agaagggcgg tttgccgaaa attcgggtgg 180
aaaaaacaag acaaaacaaa tgtgtgtccg agctggcaaa agtgtgtctc gtacgcgtgt 240

ggtgcgcttg aaggattgca aagagcgaga gtgttgtctc aggctgtgcg tgcacacgcg 300
tgtggagaac a 311

<210> 8582
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D4

<400> 8582

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cgacgacggc gggatcacgg tgaaggggca cgtgcagaag ccggtgctca aggaacgggt 120
caagcagttc aacgcggcca tacacgagat ccagcggacg cagggcgcggt ggggtggtag 180
cgacgagcag ctgcagtcgg agctccgggt atccatcacc gccgtcgtgg tgccggcgta 240
ccggtccatc ctcgcccgct tcgctcagca cttcaccgcg gggaggcaga cggagaagta 300
catcaagttg agcgcatacg acctcgaggg catcatcgag gagctcttcg agggcagcgc 360
cgggtccaag tca 373

<210> 8583
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E11

<400> 8583

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aagctgctgc agcgtggagt caggagtgtg ttgcacccc gccgtgtccc agtatgtgct 120
ttggaagact ggcgtcaatc tcaacagacc cttatgcgtc cacattattt gcttcacaaa 180
cagatagcat ctctctgctt cgtctctgga gtcacaaagc tcgatgacag ctagatacgg 240
atgatttaca ggtttggagc caaaatataa ttggctagtc tttttgaaca catgatgtaa 300
cacaaaagtt attat 315

<210> 8584
<211> 409

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-049-Q1-E1-E3
 <400> 8584
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 aatctatgga tgtgaatttt gttggttagga atagtttttg aaacaacact tatagaggga 120
 attttaatcc taggccttat cctagtaatc cttctaataa ttatggaaat tcctacaata 180
 actcttatgg aaattttaat aagatgccct ctgaatttga gagtagtggt aaagagttta 240
 tgaattcaca aaagaatttt aatgctttgc ttgaagagaa attgcttaaa gttgatgatt 300
 tgtctaggaa cgttgataga atttctcttg aaattgattc tttaaaactt aaatctattc 360
 ctccctaagca tgatatcaat gagtctctca aagccatgag aatttccat 409

<210> 8585
 <211> 409
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-049-Q1-E1-E4
 <400> 8585
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 gtttaggttg tttttatttt tcttaaatgc taatgtggat gcgtggactc tcgccggcct 120
 tcgtggccgg ctgtaatgtt taattaatga tgttttttaa gtatgcatgt gttctatttt 180
 tttctagagc cgtcaaaatg gataggccta gcgttgagcg cacgtgccga cccaaacacg 240
 gaagcggaca tccgtgtccg cctattcgat ccaaacggac gaaaagcgga caaatcgct 300
 gtccatttga gtcgatccgt tggagttgct ctaagggcct attcggtttc tctcggctcc 360
 tgcgactcaa ctcccgaagc ggagcaagct acttcagctt ttttatgga 409

<210> 8586
 <211> 368
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-049-Q1-E1-F1
 <400> 8586

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gatggagaag cgaatatgtg ctgcgggaag tggataggtg atgatgacta cagcatgccg 120
cttgacttac gagacacata ccaacaacgt agtgtcatat cgatgctaga caacttgctt 180
gagtgatcac agtactggta ctccctacag tacctactac agtactatgc cctagcttgc 240
tagagtagag tagtagagta ggactctgct ctactactag caccggagga gtagtatatt 300
ctaatactaaa atagttacaa acttcaatgc ccgatcgtgg aacgactacg aaccatgctc 360
aaagaccg 368

<210> 8587
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-F12
<400> 8587

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gtctcagatc tgctgctggt ctgatgctaa acggcggatc tagatgttcc cggcggcttc 120
ggatatgttg agcggcgggc ccggaggggc tctctccggc gagtacgtgg gatccccgtc 180
gctcctccac ctctgctgac gacggccgac ggctctttgt gttgataatt attcgatgct 240
atgtcgataa ttattagatc taagagatcg gaggtgacgt aaggtaagaa gatgtagcaa 300
gcgagggtgct tgtggagagg tcggaggaga gtgaaaaaaaa agagatgtga acatctagag 360
gcctttgcc a tgttgggtgc gctcgcatgg caggccgcca ccataataaa gatgtttttt 420
tgt 423

<210> 8588
<211> 381
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-F3
<400> 8588

cctaaagtga gtaatatgac acatacaatt cgtccagttg cttctcgtgg gttttcataa 60
ccctgctgcg caaaaatggg atatgcattt gagataaatg tccgagttag tacgagagtc 120

ggtgatcgat acagaggctg atcgagttag ctgttccttt acccaagaaa aagtatttcg 180
 attttccatg tccaatcgca gatcccagaa tttctacaag aaattagata ggtagctaag 240
 ctaatctagt tccctataca gcaatcgggt gtcattctac tgcaacagtt gtactgcaat 300
 gatgaatacc ttaaagtagg tataaataga aagaattttg gcaaaatgga aaaggggttt 360
 ctttcgaaaa gaagatgctt g 381

<210> 8589

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-F4

<400> 8589

gtcgacgggc cggccttggc ggaggagcgg gagcagcttg ctgaggagcg gaaggccttc 60
 ctccctcgaga aagctgaggc tgaagagcag cagcggctca ccggtgagaa gctgtacgcg 120
 cgagaaggcg agctgactca gcggaagtg aacctcgaca gccacgaaga ggagcttgcc 180
 gcgcgcgaac gggcacttgg cgggacgctc caagaggcaa aggatgcggc tgcggctgcc 240
 gaggccgcca agaaagaatt ggaggcaaag gtggcgcatc tagaagctaa tctgaagggt 300
 ggtggcgaag agcttgccgc gctcaagcta gagcgcgaga aggacgccct tgcccatggt 360
 gagctgcagg gccgactcgc cg 382

<210> 8590

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-F7

<400> 8590

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 aaaagaagag ttagtatgta gttcgagcac atcaaataca acaggtttct caagctctac 120
 atttagtgct ttacgaaaga ttgacaagga caagatggcc atggcgttgg ggtccctgca 180
 gacaagtaat ccaactatct caagtttcca gtgcacacag tccttgagtc attcatctga 240
 attatcatgc ccttctcgaa tatcaacagg atctagccta ccttccaaaa ctactagga 300

actgtttggc attgagactg aatactgtgt ggccaaggct tcatgtgcc aggttagtca 360
actggggaaa ccttcttcaa gtcaatccaa tgaagtctc 399

<210> 8591
<211> 430
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-049-Q1-E1-G1

<400> 8591

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ggggttccga gctgcttggc ggcgtagtag tacggtgggt tgtaaggctc cggccacgac 120
gccgtctgta ctgtgtgcg gcccgctctgg tgggtgtccgc gatggtcgtg ccgaccgcct 180
caaccgccat gacctccaag cccaacgcc acaacctaac caacgaagaa caacccttc 240
ttggacttcc cctcctttgg cggcctcgct ttgacgcgcg aatttttcgc gtcgtcgagc 300
tgatcttccc gggcaagcgt gatgctcaga tctccggca cctccgtcgg ctccatctcc 360
gacacgttct ccgacggttc catgcgtcgg cgacggaagg aaggcgagag tgaaagaaaa 420
gagcgggaat 430

<210> 8592
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G11

<400> 8592

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cggatatctt gcctctttga cgtgcagttc tagcgcagca gaaggtttgg acagatacat 120
ggttctgttt ctgctccggc agccaaagca aaaccacaga tacggtcctt gtacatctct 180
aataatttga cctgaaataa ttacgatac tgcattctgta gtttctccac atattgtgcg 240
agtaatgaca tttgtatact taaataagtg atggcatttc atccgtcaaa aaaaaacaaa 300
aagataaaaa cataaataaa catacaaaaa aaatcaaaac tcttccaaaa tgaaagataa 360

<210> 8593
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G12

<400> 8593

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 gttgaggtaa gcacgtgcac actgagaaaa cagctcgtgg acttcgtcga aggaccgag 120
 ggtggtctca agagaacacc acgaactgtc gtttaaagca gccaaccgct tcgcggcatt 180
 ggtgtgtgag acgttgatac gtctccaacg tatctacttt tccaaacact tttgcccttg 240
 ttttggactc taacttgcac gatttgaatg aaactaacc ggactgacgc tgtttttagc 300
 agaactgcca tgatgttgtt ttatgtgtag aaaagaaaag ttctcggaat gtccctggaaa 360
 tccacggagg cacttttttg aattaataag aatttttggc gaaagaatca agaccagggg 420

<210> 8594
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G8

<400> 8594

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 agcaaatacat ctgcaacata ccatcgacca tatgatggct ctgcattttc tgactgaggt 120
 cttcgatata tgcaagcata gaaccattga tcagtaactt catgcctagt catcagtggg 180
 aaattcatgt ctgcaatacc tccacacaat cgctgagtat cattcatcac agcatactca 240
 ggtatcacta catcagagtt gaaacataac tctgtccaat atcatcggtt ctaccgaatc 300
 attg 304

<210> 8595
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G9

<400> 8595

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gaagagtttta tgatgggtac gtggtatgtc ttgacttggc gtagatctcc ccggcaacgg 120
cgccagaaat ccttcttget gtctcttgag catacgttgg ttttcccttg aagaggaaaag 180
gttgatgcag caaagcagca taagtatttc cctcagtttt gagaaccaag gtatcaatcc 240
agtaggagac aatgcacaag tcacctagta cctgcacaag caatcaagaa ccttgcaacc 300
aacgcgataa aggggttgtc aatcccttca tggctactcg caaaagtgag atctaataaa 360
gatagtaaag taaatatattt ttggtatttt tgtagtatag attggaaagt aaagattgca 420
aaatag 426

<210> 8596

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H1

<400> 8596

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gtacacacct tttgggagaa gcctatttga ttagaatttg ctagaatact ctatgtgctt 120
cacttgatc ttttgagctt gatagttttt gctctagtgc ttcacttata tcttttagag 180
cacggtggtg tcttaatttt gaagaaattt ctagtctctc aagccttcac ttaaaatctt 240
tttgagagtg ttttagaaca gcatggtatt tgctatggtt atacaattgg tcctagaatg 300
gtaggcatcc aagttgggta taataaaaac tatcatagga agtgaattgg atgctatgat 360
caatttgata cttgataatt gttttttacat acgga 395

<210> 8597

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H10

<400> 8597

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 cgatatcgcc cattccattc tctcatgctt gcattagatt ttgctattgt tattgtttgc 120
 tcctattctg atgcatagcc tacttttgta tctgctgttg taccttacct gcttatacct 180
 aactgcttag tatagggttg ttagtgatcc accagtgacc cccaccttgt cccagttgcc 240
 ccgctttatg ttcgaagacc cgatcaacgg gatcgaagac caggccccgg caacgcacat 300
 cactctcccc ttagttgctc gacactactg ggtaactacc gagtgccgag ggtgagacct 360
 ctacaacact tctgatgtta accctgtagt gtagctattc ggtcgtgggc atcgaggggtg 420
 a 421

<210> 8598
 <211> 162
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-H4
 <400> 8598

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 actggaacat agacgtggcc gtcgcgatga caatattgat caagtgggaa tgcaccacta 120
 tgcctctatt agcaggccaa gaatgaatca gtggatcctg tg 162

<210> 8599
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-H6
 <400> 8599

gacaaagtgc acgtggacta gtcggataaa aagctcttat atgatcagca gatctacaag 60
 atcaacactt aactacacat tcatattaga tatgaggctg tctgcattat cccatagatt 120
 ccattaagct cacgggtgcta tagagaataa tctgaggctg aacggataca taattcatct 180
 tgagtctgat gacaggggac tgcactacac accactagca tcataactat gatgtggaac 240
 agtatcctga ttaaactatt ttctggatta tgaatgaatt ctggaacat 289

<210> 8600

<211> 388
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-049-Q1-E1-H8

 <400> 8600

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 atcactacat gacaccacac aacagatatg ctgctgtcaa cagtcctctc caaaattaac 120
 acggcattta ccgtataatt acaccattgc tgctgtcagc attgctctct aaatagacac 180
 tgcaattatc atgtacatca ttgctgctgc aatgaaccat taagaattat ttaaaatcta 240
 gcctaccatc tgcgttgctg tcaacagagg gttgaggcgg agttacaaaa tctgtatgag 300
 aaaccgaggg attgtccgag tcagcgacat ctttgttatc ttcagagttg tcagaagcag 360
 ctgagatggc gtcacctgat tctgaatg 388

<210> 8601
 <211> 409
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-049-Q1-E1-H9

 <400> 8601

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 cggtcataat tgggatggag tctatgaagc tgaagaagct ccatggcaac ctaaaagtgg 180
 caggcattct ctgctgcgtc gccggcgctc cgggtgctggc cttctacgag gggccaatgt 240
 tcagatcttt caaccatcac cggtctttcc agcaaggcag cagcagcagc tcctccggag 300
 caggcaccta ctccaagaac cagtgggtat ttgggatttt cctcatgaca ctctccaaca 360
 ttttagcagg cttgtggacc gtgcttcagg ggccactgat agaggacac 409

<210> 8602
 <211> 391
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-050-Q1-E1-A1

<400> 8602

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gtatgtgagt tctgtatgac taatgttggg tccatggatt atacgcactc tcacccttcg 120
accattggta acctctctag tgcccgaac tttcgccgt agcttaaacc caccatatac 180
tttctcatc acagccacca tacctaccta ttatgacatt tgcatagcca ttccaacata 240
tattaccatg caactttcca ccgttctgtt ttattatgac acgcttcaac attgtcatat 300
tgcttgcat gatcatgtac ttgacaccgt acttgtggca aagccaccgt tcataattcc 360
ttcatacatg tcaactcatga ttcattgcac a 391

<210> 8603

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A10

<400> 8603

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cacggcgagg gccacaagga cgacgacggc cacggcagca gcagcagcga cagcgacagc 120
gactgagcca gctccggccg cgctccggca gcagcgtgca gtgtaggcga gatcgatgaa 180
cgcttggggag aagtgtggca tacatatatg ttgcagggtt tggagcgtgt ggtagcatat 240
gtatgtaatg cgtgacatgt ctcatggatc ttgtgatgta taataattag ccggctgcac 300
tgactgcac ggtgcttgta ataataacgt taatgaatca tgttggtatt gatgtt 356

<210> 8604

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A11

<400> 8604

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tgagttgaga gaccgtaat tgctacgttt ccgaattgag aagcatccac tcgtctagta 120
atacccttat ggaccagtgc ataccactgt ggcatttcgt attcatcata agcagtccaa 180

acctggtttt caataaacia agcttaagtc cgatccgtgt cgaagtcgta aaaatcagca 240
tatggaacac tcataaccac ctattatat tcatcctcat taaccatata actagtgttc 300
ttgttttcat aaatctttac tctttttact gcattacata tctttaagtt ttgaattgtt 360
tttgtaacc agcagcacca actttc 386

<210> 8605
<211> 269
<212> DNA
<213> *Triticum aestivum*
<223> Clone ID: LIB104-050-Q1-E1-A3
<400> 8605

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cgtcttcttc ctgtccgac gatcccaagc ctgcacgggtg tcaactttcg ttagctttct 120
cgtgtctgtt attaaataat acgatcgaat cgtggcctct ttggcatgta cgtactatat 180
gatctatttt cagttatcga cttgctaattg ccggatgaat tgttctatct gcactctgca 240
cttgggatta acctgtctt atgtttctc 269

<210> 8606
<211> 396
<212> DNA
<213> *Triticum aestivum*
<223> Clone ID: LIB104-050-Q1-E1-A5
<400> 8606

tgtgtcatat aacaattgta ctaaataatag taaagaaatc ttaagatttc gattcccagt 60
aaaaaaaaat atagaataga aaaatatggg aaaaaaaata aatccactcg gtttcagact 120
tggtacaacc caaaaacacc attccttttg gttcgcacaa caaaaaatt attcgaagg 180
tctacaggaa gataaaaaaa taagggtattg tatcaagaac tatatacaaa agaataggaa 240
aaagggtctg aatagaaaaa tagaatcaga ctcaagttcc gaagtaatta cacataatag 300
aaaaatggac tcaggttcaa gttccgaagt aattacacat atagaaatcc aaaaagaaat 360
cgatacgatc cacgtcaaaa tccatattgg attccc 396

<210> 8607

<211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-A6
 <400> 8607

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accttgctct gataccaatt gaaagtgcgt tatatcgact agacgggggtg aataggtgac 120
ttttatgaat tcttcactga ggaatttcag ggtgaggaaa ttcctaactg aagaactact 180
tgcagcggaa taagtactca gaatctatca taacagagca taagcatggt catcatgatg 240
aatgaaaaa caagcacaga gtacagaaaag tgtaaacaca ggatacacag gatgaagaca 300
aacagactga agaaaatgaa ctgaggaaat tgagaaagtc ttcagtcaaa gtcttcaaac 360
aatatgaac aagcacacag tacagtaatg aggaaatgga aga 403
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<210> 8608
 <211> 373
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-A7
 <400> 8608

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gataacttag catattagag ccaacttagg taaaatggag ccaacctagc taattatgcc 60
atctttgagt gaactaagca tattagagct aacttatagc taacttatgt cattttggaa 120
gaagaagaag aagaagaaga agactataag cttattatgt aaacttggtc attttgtgct 180
aacataagta attttggagc taacctatag gaaactaaac atagtagaga taacttagca 240
tattagagct aacataggta actaagcata ttagagctaa ctatatatag atcattttgg 300
agatctgaca tacctgacat tgttcagttc tcattgttct tctccttctc cttcctcagc 360
ctgatgcgcc aag 373
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<210> 8609
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-A8

<400> 8609

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gagcctaact aattatgccca tctttgagtg aactaggcat attagagcta acttatagct 120
gacttaggtc attttggttag aagatgagga tgaagaagaa tactataagc ttagtatgta 180
aacttggtca ttttgtgcta acataagtag ttttggggct gacctatagg atactagcca 240
taggtacaga taacttagca tattagagct aacataggta acgaagcata ttagagctag 300
gtagatatag atcatttttg ggatcggaca tacctgacat tgttcagttc tcattgtgtc 360
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<210> 8610

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A9

<400> 8610

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caaacttgag ttcaaagggtg tcaattctat ttaaagctaa gaaaaacgta tgcatttca 180
atattcagta tccatcaaat tttggtctta atgatgcgtg gttttgagtg gaaagtttaa 240
gatggactac tgttttgttt agtattattc ttacattcat ggattgtaag aaaactttaa 300
tatctttttg ctctcacag ggataaaaaa gataaagaaa atttatctag aagaagggtga 360
atgagaagggt gaata 375

<210> 8611

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B1

<400> 8611

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gtttcgttca agaatacatt gattgtcatg acatcaaacg ttggttctac atcaatttca 180
aacggacgac ggaccatggg tttctcaaca gatgacaccg aatcaagccg atatgtcgcg 240
gtgaaatccc tcgtgatgga agagctgaag ggattcttcc gtccagaatt gctcaacaga 300
atcgatgaaa cggttgtgtt ccgtcctctg gaacagactc agatgctagc aattctcgat 360
atcc 364

<210> 8612
<211> 258
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B11

<400> 8612

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tataggttgg tatcatatcc gtcaagcatc aggtatgtta atgactgtcg ggagtgttcc 120
ccccattgc atcagtctgt ttgcgcttgt gaatctgttc agcaggttca acgagcgatg 180
ttcatcaggt tcaaattttg gtcacgtaag gtttgacaat attcagccat tttttaaaat 240
catcagccga tattttcg 258

<210> 8613
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B3

<400> 8613

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ttcaatatca ggctgcaatg tatctaccta gccaaatggg gtggaatact taaattttac 180
ttggtatatt tgtcagcaga tgtaacatgg aagggtactgg caaagtggca atatgattgg 240
tgttttcttc acaaaggaaa atgatgtcca tctggcttca atgtcacagt tactctggaa 300
gtctaattct tctgtgttct tgcagcacac aaaaaagga aaaaagaaaa agacaaagga 360
aaaaataaaa aaggaagaaa aggaaaaaga aaaagaaa 398

<210> 8614
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B4

<400> 8614

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 cgcattcttcg gagtgtctatt tcgggctgaa cctcaatccc atgtgtaagc ccggcgacgt 180
 cgcgttgacc ctcatcccca ccatgtgcga cttcgaattc ctccccgtcc attgcagcaa 240
 cgccaatgcc gggccgagcc accgcgacct cgtcgatcta gttgatgtga agctcgggtca 300
 cgactacgag ctctgtggtaa ccaccttctc aggtttgtgc cggatcgtg tgggcgacgt 360
 tctg 364

<210> 8615
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B5

<400> 8615

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 agtctgttct tcatacctat agtccacgaa aaagccaaaa aaaaattagg gttagttcat 180
 cccatccgaa ccaatctgag ccttgcataa tcttttctgt atttgctttg ttgaatttgc 240
 ggttgcatcg tcgtgttcag ttgctggtct tagcgtctag tcttttagag tttcgagttc 300
 tgttcacaag ttgtcacgcc gtcgccgcac caccatcatc gcccctgcca tctaccacca 360
 ccgctctgaa tccgtatcca tataccacca ccaatccgtg gtcataatac aacaccg 417

<210> 8616
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B8

<400> 8616

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tcttctgggt gctgaattat gtggcttaag tcgtcggcat ccggcggtcg cacgtaagtg 120
ccctggaagt tgtcgaggaa tgcggcttcc aggtcctccc aagaaccgat tgagtctgct 180
ggcaagctgt tgatccaatg tcgggcccgt cctttgagtt tgagcgggag gtattttatg 240
gcgtgtagat catcgccgcg tgccatgtgg atgtgaagga gataatcctc gatccatacc 300
gccgggtctg ttgtgccatc gtatggctca atgtttacgg gtttgaaacc ctctgggatt 360
ttatgatcta ttacttcatt cgtgaagcat agcgggtgtg cggcgctct gtattgggct 420
atatcaca 428

<210> 8617

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C1

<400> 8617

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cttgctgggtg tcttatgggtg ggggtctgag aattttgaca atgataagca acaaataact 120
gtgttagtgg tggttggatt gaattttgat tctgaagggt ggaattgctt ggctgtgttc 180
agatgagagc tcctttgcaa gctccctttc ggatagcagc tagagcttga atttcagagt 240
gtggcactaa gaatgcttat aatgagtttt gcagacatgc ttgttggtta atttcaatta 300
tttctcatgg gtatttgtcc cagggttttg actgtcaaaa cggtttctgt tattttgcct 360
gttttcatca gtgtatactg aataaattgt aatgggaaaa cc 402

<210> 8618

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C2

<400> 8618

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aagaaaagtt tgatacttga taattgtttt gagatatgga ggtagtgata ttaaagtcac 120
gctagttggg tgattatgaa ttcaaagaat gcttgtgttg aagttagcaa gtcccgtagc 180
atgcacgtat ggttaaagtt gtgtaacaaa tttgaaacat gaagtgtacc tggcttgtgc 240
atccttatga gtggcggtcg gggacgagcg acggtctttt cctaccaatc tatcccccta 300
ggagcatgcg cgtagtactt ggtctttaat gacttctaaa tttttgcaat aagtatatga 360
gttcttttga acaatgttga gtccatggat 390

<210> 8619
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C3

<400> 8619

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atgatggatg ccacagcaca cagcagcacc agcagtacag tgttgctgag cgaacgcgtc 120
catgcatgtg cggaccatgc tctgcctcct ctgcttcagc gcccgcctaa gtgtcggcag 180
cgccgtccag tccgagaaac atggatggat gaatgattgg ccacctttaa tcaatttgac 240
actgttcaat cattcattag ccgtcgcttt ttggtacgtg ccaactgacac gtgcactgtg 300
tacatgtatg ggcgaggacg ctgcggcgct ggccggtggc gacggtgtcg gagcgcgagc 360
ggagggcgac ggtggacggg ccggtgtgct gcggctcgcc gttggcggtc accg 414

<210> 8620
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C4

<400> 8620

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aggccatatc agacactgag cataagcact tcgcctgtga gatagataac agtgacagaa 180

tgctataaat aggtactata aaggagacaa ataggtttgt gttttcctta gatgacacga 240
catgttcata ggagtggatt gcatagcatg ggttctaattg ttccaccaat aatgagaacc 300
taactttaat gattaac 317

<210> 8621
<211> 219
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-C8
<400> 8621

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aagtacacgg tcaggcacgt cgagctccgg tgaacatggg ttgctgtcgg ttatcctctt 120
tggtgtatat gcttcgtcta cagagctact ttgacatgtt tcaagtccgc ccagtttcct 180
gaacttgtgt ccatttgcac accgcgtccc tttggaaca 219

<210> 8622
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-C9
<400> 8622

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tgctacaaaa ggcaaactgt caattcttca tgatgcaatt gtgccagggtt atttggttact 120
tttctactca tgattaatca agtggaccta gtatccgagc agatgacaca gttatgatcc 180
acaagaagct caatagagaa gcaagcataa agggaagatt agtaagacca ctgagctcac 240
ccgtttatga gaactttcga gccaatattt attaagcttg gagtaactta atttgccagc 300
tctcatggca gagatagcat cattatccta aaataagcca aaagaaacaa cacatgtcaa 360
tctacaattc ctttttagtt gaatttgt 388

<210> 8623
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D11

<400> 8623

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atccccgagat attccaaaga aaaaaaaaaat aataataata aacgattaaa ttatggaagt 120
aaatattctt gcatttattg ctactgcact cttcattctc gttcctactg cttttttgct 180
tataatttac gtaaaaaccg ttagtcaaaa tgattaattt gaataaaatt ttactatcaa 240
aaaaaaaaaa aagatttcaa tttctcgtct taaatgaaag gaacgcatta gactcagtag 300
tagtatccta aggggtccgc tagtatggta gaaagagatc tctttcaacc atactagcca 360
ttatgggttat tgtaa 375

<210> 8624

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D3

<400> 8624

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gccgccgtgg ccccgtgcc gttcccgac cacatgccgc tgccgcacca catgccgccg 180
ccctacatgt tcaacgccga ctacatgatg aaccagtacc ggccggcgcc gccggcctac 240
ccgccgccgt acgtgccgcc gcagcactac tacgtgcgga acatgagcat ggaggagaac 300
ccaaactcgt gcgtcatctg ctaagtcaaa gtcgatccct cgatcgctcg cgtacgtacg 360
ttccgtgggg cgaccatgca tgcattctgtg tatagtagta tttt 404

<210> 8625

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D4

<400> 8625

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aattcctaca aatccaagcc ttgggacaag cccgccagac cgagtcgcta gactttgctg 120
aaagagatgg cgccccgagg ctccgtagaa agagaagaga agtggtgttg tatcgccaat 180
ttttcgaaat ataccgtctg ctgttccctt ttttcccgcc ttgttgcctc ttttttttca 240
ccttggtgtt tgactagacg gctcgaaata gacagaactc ttgatcgggg cctgtattta 300
attgtgagat tctttgtagc gcagccggag tagtagaaca tggtgcggtt tttcgcagca 360
tttttcgcag catttttcat tcttgtttcc ccagcaacat agttaagatt tgttatg 417

<210> 8626
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D5

<400> 8626

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acggcaagat ctgtgtgacc atctttttca acacctgtac attggatctt ggaggaccaa 180
tcagtatgaa cgcgtcgtgt catcattcct cctgggtctac attatgcca gacatgcaaa 240
gttgtggata gtctgtaagc taccatttgc tttcgtatgt cctatgtctg tgatatttgc 300
tactaaacct attgtgctac gtgctctcta tgttcgtaca ttgttaggtg gtccttatt 360
gtgtgcatac aaccaaacct tacttctgaa tgattcttca ttagtttttt 410

<210> 8627
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D7

<400> 8627

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aattatcaaa gtagcaaaca cgaattaagc caacatgatg aaagtgacta gatgaaattc 180
ccgtgtaccc tcaagaacac tttgcttatc ataagagacc attttggcct gtccttttcc 240

tcaaaaggat tgggctatct ggctgcactt ttgttactac aatcgttact tgctcattac 300
aaattatctt gctatcaaac tactctgcta cttacaattt tagcacttgt agacattacc 360
ttgatgaaac ccacttgtct tttccttctg ctccccgttg ggttcgacac tcttacttat 420
cgaaaaag 428

<210> 8628
<211> 416
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-D8
<400> 8628

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caaggaggag ctctactcac tcgtcaccgt tgccgaggtg cctgctgagg gtttgaaggg 180
gctgggaacc aaggctcgtc atgacactga gtagactctt ttctttatct acatcgttag 240
aatgagctgt tatttggaat tgcaccagca tgctttttgt atcccgaga agttttggag 300
tatggaatat cgggagctat ctattttcct tcatctaaat cttgatgatt ggttttgtcc 360
ttcatactgt gctcgttatt ggcgtcaata caggatgtgc agttgagctt gcaaaa 416

<210> 8629
<211> 374
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-D9
<400> 8629

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taccctatct tgtttataac agctttgata catgttaaatt attcgaaaac aatgtccgaa 180
catataattg ttgtccccta atataacaaa gatcacgaaa aggctcgaaa agtacattaa 240
agtacaattt ggagtagaaa aaaaacaata gaagaatttc attttccttc ctcatcatt 300
ggagagctct ctttgggctt tccgaaaagg tatcacatgt caagtttggc ctactgtat 360

aaaagttata aagt

374

<210> 8630
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E1

<400> 8630

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agaagattga gttgcttgac aataaacagg atgcggctaa tgctggtata tggatatctct 180
gccgaatggc aggaggtata aaagagggaa taaatgccaa gtttttccaa gaagcggatg 240
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agaacgatgc caagaaaccg atgaaggcgt tcgacgtgcc tg 402

<210> 8631
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E10

<400> 8631

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gaggtccagc gtctagatgc tgatatggac cgcttcatca gggcccagag tgagcgcattg 180
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aacctggaac tcgaggacca gattaaacaa atggcagggg aagttggtgc gtggcagcaa 360
cgagctaa 368

<210> 8632
<211> 407
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E2

<400> 8632

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tagttagcta gctatggagc cggcgcagct gagtcgcgtg gcagttctgc gtggaggaag  180
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tggtctgttac ccaagcgtgt gtagctagcc cgtggagtac taatcggatc aagcaaccgt  300
gggcttgacc atgcatgcgt gtgtgcgtgg ggtagtggg tgtgtgtgag tcttgtactt  360
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<210> 8633

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E3

<400> 8633

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accaaggtaa aattcaagga caacaaaaag cctaagcttg gggatgcccc ggaacgcac  180
ccctctttcg ttttcgtcta tcagtaactt tacttgaggc tatattttta ttcaccacat  240
gatatgtgtt ttgcttggag cgtcttgtgt gatttgagtc tttgcttttt agtttaccac  300
aatcatcctt gctgtacaca acttttggag agacacgcat gaatcggaat ttgttagaat  360
accctatgtg cttcacttaa atctttttac ctaaataatt ttgccctagt gcttcact    418
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<210> 8634

<211> 57

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E4

<400> 8634

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<210> 8635
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E7

<400> 8635

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atgtctcaga cattgatcaa catgtcactg aacagaaact tgctgaggtt ttctcaaact 180
gtgggtcaagt ggtagattgc cgtatctgtg gtgatccaaa ctcaagtatg cgttttgctt 240
ttatcgactt cgcc 254

<210> 8636
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E8

<400> 8636

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tacaaatttt tgccttccca cgccgtgcat ttgcatgaat tggagggaaa atttgaacag 180
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ggaaa 365

<210> 8637
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E9

<400> 8637

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ttcgaaaaat aaaaacttct tcaaaatcct tagcaatttt aagataaaat tagattttcc 180
taattgctca agagaaatca aaaaaattat caaaatattt tttttgatgt atctttttat 240
attgtacaaa cataagattt tttgctcact taaagtaatt aatttcaaga tctttttatt 300
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<210> 8638

<211> 360

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-050-Q1-E1-F1

<400> 8638

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tttgactata tattatattt ttctgtttta acaaattcaa tataaaaaaa accgaacttt 180
ttctattatc tattaatgtg tatctatccg taccgtaata ttttgaata ttatgaatta 240
gataaattta catgctttct cattccattc gcgaggagct ggatgagaag aaactctcat 300
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<210> 8639

<211> 386

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-050-Q1-E1-F11

<400> 8639

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gcgcggttcc ctcatattt acttaaatg tagatattgc tccatgtaag aatataagat 180

actgactata tattgactaa tgtattactc caatttaacg gaaataaagg tgacacatgt 240
 actcaatcaa caagatgagt tattcataat gtaatgaaat gggacatatc aaaacttgag 300
 tggtagagtt gctgcctctt aattacaaac agtttgaaag caacccctcc ttctaactaa 360
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<210> 8640
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F2
 <400> 8640

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 ttgctgcgga gggatatcga agcaaagcgc tcttgatggc aatgaattac catgtcaata 180
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 aatTTTTGCA ccgtacttcc gccatgtag gccgcgtttc atcttttGCT tGttctgata 300
 gtatttcaac cctttttgtg ggaaaagctg atattggta gatgttgggt atagaagagc 360
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 <211> 366
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F3
 <400> 8641

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 cgtgccgcat cccgtctctc aagttcccg tctgtggga caccaaggcg aggcaaggga 240
 agatcagccg cgccgccgag cagagggcgg cgctgatcac cctgggagca tccagcgcca 300
 gcaccacgga ggagaaacaa ctctgccgg gggaagcgag cagtgtagat ctctgctgc 360

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366

<210> 8642
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-F6

<400> 8642

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tcggggggta ggcctatata aaccctcgg ggcacccatg caaagggttc ggacctagag 180
aggaagatag accagatagc ccaggagaaa gagagctagc cttgctctct cccacctccc 240
aaaacagctc caggagcacc attgtagtta ccttgcttta gtgatcatgc ggagaccccg 300
cagagcagca gtaggggtgt tatctcctag gagagccctg aagctgggta agttccgccca 360
gcgtgcatgt cttgcctca tcccgcttcc aggcaccggc gacgttctac tcgtcccaa 420
catg 424

<210> 8643
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-F7

<400> 8643

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gcctatacaa acccctctgg gcatccatgc aaatgggttcg gacctatata ggaagataga 180
ccatatagcc cagggagaat atagctatcc ttgctctctc ccacctctca aaacatctct 240
agtagcacca ttgtagttac cttgcttttag tgctcatgct gagaccctc agatcagcag 300
taagggtgtt atctcctatg atagccctga agctgggtaa gttccgccag cgtccatgtc 360
ttcgctcat cccgcttcca ggca 384

<210> 8644

<211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F8
 <400> 8644

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gctttcttgc ttttttgtgg tggttaaaac ctgtgtaatt atgattatgt tgggtgtgtta 180
atttgttggt catggtataa tcaggaactt gtgcaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaagcgg gccccccaaa agtttcaaac ttaatttacc 360
cttaaataaa atttaaaacc cctccaaaag tgcccccaaa ttcaaattca gggcccttct 420
tttaaaaatt t 431

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<210> 8645
 <211> 369
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F9
 <400> 8645

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tcacactcgg gacagcctag gcggatccat gctttccaac gaagcacgcc catccaacct 120
atgcgggtgg aatcgatgtc catggggaca tcgcggtatt tcgtgcgcaa gacgactatc 180
ccgacaccca cacagactaa gataatccat gtcagcccat gccatgacac gccattctc 240
ttcggcgacg aggtgaacag attcccgtgg ggacatctcg gtaatctcat gccacaagt 300
tatcttcac caccctagg cctcgaaaaa tccaggtcag cccacacatt aactcacat 360
tcttcgcag 369

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 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G1

<400> 8646

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tgaagggtgg gttctatgtc agtcctgagg ctaagctgct gtttgttgtc agaatcagag 180
gtatcaatgc catgcaccca aagaccaaga agatcttgca gctgttgctg ttgagacaga 240
tattcaatgg agtggttcctg aagggttaaca aggccaccat caacatgctc cgcagggtcg 300
agccatatgc tgcatatggg taccggaacc tgaagagtgt gagggagttg atctacaaaa 360
gaagttatgg aaagctcaac aagcaaagga ttcctctgac caacaac 407

<210> 8647

<211> 234

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G3

<400> 8647

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ggattttattc caatctgttc cactgggcta atacagaact catgtgaacc tgctgtgaac 180
gttctaacct ttcttttagtc ttccttcgat tttaaattcc tctctctgcg tttt 234

<210> 8648

<211> 347

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G4

<400> 8648

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atcaagtcca aaaggccctt cagcctttgg ccgatctagc gaaactttat gaaaagtact 180
ctggctcacc atgaaaggaa ttgcaaaatg cttcaaagta cccacagacc gtgtctacgt 240

agatgtttct acggcaggaa tctgatcgca ttgaccccaa acagctgcta acctgccact 300
accacggcat ctttgaagta aacatccgcc ctttatacgg acctcat 347

<210> 8649
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G8

<400> 8649

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acacgctcat gtgggttcag atacatggat ggtctgagta caacgctatg tcaggaacac 180
aacaactggt acagttcatt cataatgtac ttcttgtgtt tgctcaaaa 229

<210> 8650
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G9

<400> 8650

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gaaaactact tagagggcgac tgactcacac aaaaaaaaaa cttaaattcat ttttttttca 180
atcaaccatg ttagtttggt agaaacttaa gtttaggtct tagtttaaca aacgcacgaa 240
atttcgataa cattagatgt ttacatatt gttgtaccat ttacaaaaac tcctactatt 300
actttgtaaa ctaaaatcca aaagaatcat ttacaattac cacattccga aaaattaaaa 360
cttgcgatag tacaaga 377

<210> 8651
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H10

<400> 8651

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tatgtgtgtc taggctcaag ccagaggccg gtgtgtgacc acgtctagct aagcgggagt 180
agccgagagt cagtcaatct gtttgagttg gtcatgtagt gctatagtgt ggcgcgcggc 240
cggacgagcc aatcatgcag atcgtgcatg catgtaggag tcagcgggta gttagctggt 300
tagtgcccg tgggcgtgcg tgtgtggtgg ccagggttag tgttgtgcgt gcgtctgtac 360
tagaccgat ataaatcccc tgctgctgt 389

<210> 8652

<211> 176

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H12

<400> 8652

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ctgtgacacc tacaccagtt agtgaggaag ctaaggatca tgatcatgac acttcagaac 120
aggatactac tggaagctcg tagatcaacg agatctaaga tccgcaccag agtggt 176

<210> 8653

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H4

<400> 8653

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tattcatcca gtcctccacg ggtcctgtt catccagccc caaccggctc gatcgatcgg 180
ggtcctgttc atcccgaggc aacgccaccg ctcatgttc atccaccctc cccccccgc 240
aacgctcact gttcatcca gaggcagcat tgatcagctt ctgttagcag cagtagctaa 300
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<210> 8654
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H5

<400> 8654

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 gagggcacct tgccggggga accaatggct cgcaacacta cacgcggcaa caggctccag 180
 ccctcgtcca acccaatccc gttcacatcc ccgactttct ctggggctat tatctcggct 240
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 gtggagtta 429

<210> 8655
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H6

<400> 8655

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 cgaaggctta acgtgacgcg ccccaaaacta agtgcagatg ctaggatgcc gtgtgatgct 180
 gcaaacacgg cgatatgccg atggatgatgc gtgagaagcg gcacgacgta tcagaggctg 240
 gagccgtgat ggacagcatc aaattgggtc cgggtgaacca gacggtctta tcggtatgct 300
 tggccagctg ttcaaacgta tgttccttca gtctaaccg atagtatcgt tg 352

<210> 8656
 <211> 246
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H7

<400> 8656

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ggcgtatttc atatgatgtg ggctttaaga atccaaatat agttaagcgc tcatgggtgcc 180
tgtgatatca tcctgacgct cccgggatat tcttttctctg ctgggtctga taaaaggtta 240
cttctt 246

<210> 8657

<211> 270

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A1

<400> 8657

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atgcacataa gtgcattgac aactcactta atgcataaaa atgtccaaac gaaccacgac 180
gattctcaaa aaataacaca gcaactcatgt tgttctaagt tgataccgga aattttttta 240
aagcaatatg aggcaatgga tatagtttctg 270

<210> 8658

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A2

<400> 8658

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atgagggtag agttgatgac aacatcgaga ctatcaggaa gagattcaaa gtttttgttg 180
aatccagttt gcctgtgatt gagtactatg acgcgaagga caaggttaag aagatcgatg 240
ctgcaaaacc aattcctgag gtgtttgaag atgtcaaagc catttttgcc ccatatgcc 300

aggctacata gaacagtata aaggaccaca aaggtgataa atggaatgat ttcatacaag 360
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 tcag 424

<210> 8659
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-A4
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<210> 8660
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-A5
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 ggtcttttcc taccaatcta tccctctagg agcatgcgcg tagtgcttgg tttttgatga 240
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atcacac 427

<210> 8661
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A6

<400> 8661

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attttattta ttgagtgtct tccttatga 449

<210> 8662
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A7

<400> 8662

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taatctgcgc gttcattcac cgtagtagta ccgcgcgacg gaccgatcga tcgatgcgct 180
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cgctgctttc taagcaccac cactactgct acaaagat 398

<210> 8663
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A8

<400> 8663

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aagaaaatat gacagtcaca gccgagttga aaagggcagg aacatctaac tccaacttac  360
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aagggcaaca acatctaact ccagcactgt t                                     451

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<210> 8664
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A9

<400> 8664

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cagtggatatg aatatcagaa atgcgttaag agaattgaac gtgatgagac cgggcagaag  180
cactgtactg gccattactt cgattactgg aaatgcactt acaagcatgt tgctgagaag  240
ctctttgata gcttacaatg acaaggaaat tgttctctct agctactttt cactcaacac  300
tggttaataaa tagtatcatt tgcacgcctt atctgacaat tcaggtcttt atcatcatat  360
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<210> 8665
 <211> 295
 <212> DNA

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aagggtacgg aaccgtactg gagggttggc taaacggacc ctgcaaaatt catagcacag 240
agggcgccac tccaactcac agccttcgag catgttggat actacggcag gtggccaaaa 300
gtggcgaaaa gcttctagct tcagaatccc aaccagcaa caccagtaca gtgttaacag 360
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<210> 8668

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B4

<400> 8668

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ccttttttaa tcgacaatgg atgttggcag gagcaactga cccaccacga tgctcagttc 180
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cccttgcatg cagatccaac acaccatggg gtcttggagc agcgtatcat gagatggacc 360
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<210> 8669

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B5

<400> 8669

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acctgaccac gagggctctgt ttctgcgag caaacgaaga acaagcaaga aactgagatt 180
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cgccctttgtc tggtcgttga acacaaacga agtacgcgaa gttgcagcta tggatgaactt 300
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 aggggggaat ttcgtggccc ttggtggagg ggtccgaaat caaccctatc tcttgtttcc 420
 ccacacatac ggactctaaa aatagcctat act 453

<210> 8670
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-B6
 <400> 8670

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 aaccgccgtc accagtgttc atcgagagcc tgataccccc caaggaatgg gcagaggacc 180
 tctgcggttc agtcaagaca aaggcagcat gtggcttcat cattgcctgc ggcggccgtg 240
 tcaacgtcga tcccgatgat gtggtggcca ggctcgagcg catccttggc ggagttgacg 300
 tccccgatga agtagaacat cgccaacatg atatcttgag gatgcaggtg atcgacggaa 360
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<210> 8671
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-B7
 <400> 8671

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 gtgacgtagt ctaggttttc caaaactaat ctggtgacct gggaggttagc tgtcgatctg 180
 ctccagatgg ccaagcgagt tggccacag tgcgaagccg ccgaacatga agatctggcc 240
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tcttgggtgac gacgcagcgg aactctcagt gaaagcacca gtctcgggtgt caaaaccggc 360
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<210> 8672
 <211> 340
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-B9
 <400> 8672

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 gttggcaaag gtgggggaaa gaaatcccat catttccctt cccacccgag ttgttatccc 180
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<210> 8673
 <211> 409
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 <223> Clone ID: LIB104-051-Q1-E1-C1
 <400> 8673

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 atgctgattg cttttccaac aaactgttct tcaagccgga taaattccga cgccgttttc 180
 gaatgggaag gcatgtgttc aatcgtatcc gaaagggagt ggttgctcat gaccatact 240
 tcgagtgoaa gatggattcc cttggcgagc ttgggttctc ctcttgccag aaatgcatcg 300
 cggccgtccg catgcttgcc tatggaattc ctggcgatct ggtggatgag tacgtgcgta 360
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<210> 8674

<211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-C2
 <400> 8674

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 ggatagttca catatctgca tggatagttc agaaacacta gtcattttca ttcattctctg 120
 catcagcatg atagcactca agttcacatt gacagcacia catgggggat gctccagtat 180
 ttcaaaataa aagagaggaa aaaagggaca tgccccagca tgatacatgc tccagcttgg 240
 gctccacaaa agataaagta catgggttaac agcatcttgc tgtttctagt tacacaaaaa 300
 tgatgtagcg catacatttg tctacaaaaa agcagtctaa aactatctag gaaacacttt 360
 gctccaattg acatcttcta agaactactc agcagtttct gaaactcttc ggctgagttg 420
 agtgtgttt 429

<210> 8675
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-C4
 <400> 8675

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 taatcgagaa agcagattac aaataatggt agaactctgaa cgaattaaga agatgtgggg 180
 aggggggtgg cagagaagga cgacggtggt cgctgcacga cccgtgatgg atgagctcca 240
 ccggcgacgc ccatgacctc cgaagaaggg gtggaagagg gtcgagcgga gctgctcgcc 300
 ggggaaggga aggcagctgg ccatggaagg gagaggattg ggcggtggga tctagatcaa 360
 gatttatttc tttttctaag aacatct 387

<210> 8676
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C6

<400> 8676

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gcgacggcca cggcgacggc aagaaggacg gcgagcacia ggagaagaag gacaagaaga 180
agaagaagga caagaagcac ggcgagggcc acaaggacga cgacggccac ggcagcagca 240
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gcgtgggtta atttggagcg tgtggtagca tatgtatgta atgcttgaca tgtctcatgg 360
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<210> 8677

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C7

<400> 8677

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aaataaagtc tgacacttaa actctattcg gctgaggata ccactgtcct cataaccatc 180
caaccacagg ttaatttgtt ttttctttct tttaaggata cataatttgt ctgatgagat 240
tgattttaca acacttgctg cgttaattaa caagctcgag aaaaacacat cagatgaacg 300
agtaataagt gggcaggcaa cataaaacaa gaaatgcaaa ttgaccatag ctgagatggt 360
tatgtttctt gtggtggaac caactcatta gaatttaagt ccttgactta gtatcggcgg 420
tcgcattttt ctgaa 435

<210> 8678

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C8

<400> 8678

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attaggtggc tgtttgatac cgccagaaag acaaaaaaaaa gattctaagg aatcaaaaaa 180
aaggaaaaat tgggtctatg ttcaacggaa aaaaaattct caagagcaag gaaaagtatt 240
ttgtttccgt tcgccctaca gtggcatatg aaatggacga aggaagaaat ttagcaacac 300
ttttcccgca agatctcttg caagaagaaa ataatctcca aattcgactt gtcaatttta 360
tttctcatg 369

<210> 8679
<211> 369
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-D1
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tttgttaaac ctctatttta ttttattact aaaaaggcta tgaagcttga gcatcatagt 180
ttgcttctca ggggtgaatc atgttggtgc tatgcagtag gtatgggtgc caagaagcac 240
tacgggaaac tgcaagaac actattaaaa ttctttgggt gggtgttgat gtcttgagag 300
caagtacaat agagttgagt tagttggcta taagaatac actagtatat ttttgcttag 360
ttggaggaa 369

<210> 8680
<211> 403
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-D3
<400> 8680

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gtatgaggga gaagatgagt acaagaagaa gcctaccagt ggtggctatg gtggggggag 240
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<210> 8681
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-D8
 <400> 8681

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 cataaagatc atggtgctac tttgaagcac aagtgtggaa aaaaggatag tagcattgtc 120
 ccttttttta ttttttattt ggcctttctt ttttcttctt tttttggcct ttatctttat 180
 tttatttggg acaacgctct attactgatg atcatcacac ttctatttat ttacaactca 240
 aagattacaa ctcgatacta taacaaagta tgactctata tgagtgcctc cggcggtgta 300
 ccgggatggg caatgaatca agagtgcacat gtatgataaa ttatgcatgg tggctttgcc 360
 acaaatacga tgtcaactac atgatcatgc aaggcaatat gacaatgatg aagcgtgtca 420
 taat 424

<210> 8682
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-E1
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 ggagcatctg ctgcgccgag agctgggatc accttgaccc gttcatggcg ccgcgatggg 120
 cgaaacattt caacgtgtac aggtcctgag agtgagtgat tcacaagggtg gaagatcgtg 180
 atgatcggct gaacacaaag tctggttacc agtttgacca caatgtgatt cttgttgggt 240
 ctttctttgc actcttacia gcatttcaag gaagtgtttg ttaatcttta catggctttt 300

gttgtgggtt cagagtccat ccatgttgtc caatatgtgt gcaaaagctt ttctttctgc 360
ccttgctcgg tgtgttttgc atttgtgtgt 390

<210> 8683
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E3

<400> 8683

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acactaccag agtggacaat ggcaaagcgt accatgcata cacaacggaa aagaagccccg 180
agcctgcgca ttgatcaagg ttgtctactt gtagcacaaa tcatgcaaac cagctcggtg 240
aatttttgag ctgatgtgtg ctgttatgtc tgttttgctg atgcacctag ttcctttgca 300
aagctgtagt aacttgtttt gctcgagggc aatacaacag acctggaata aatatcttgc 360
tttattttgc ttcattcattg gttacgataa taatcacatg tgacacaata ttgttaccct 420
aac 423

<210> 8684
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E4

<400> 8684

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gatccgcgcg atgaaggggtg cgcgaggtgc ccgcgtacct caagccgcgc ctcacctggg 180
cgaacgtgaa gaagagcacc gaccaggcgg tggaccgcta catcgagaag tacatcgaga 240
ccagctcggc tgaccgcgtc ttccacatct gttcggcgcg catggccttc tcgtacctcg 300
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<210> 8685

<211> 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-E5

 <400> 8685

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 ctctaaaaat tcagagtatt tagatcttaa tgatgaaatt gatgaaagtg ggattgaaag 120
 aaataaaaaat ctagatgcta aaccactat attggatttc aaggaattta attatgaaag 180
 ttgctcttta attgagtgtt tttccttggt gcaatccgtg ctaaattctc cacatgctta 240
 tagtcaaaat aaagccttca ccgaacatat tgttgatgcc ttgatgcaat cttatgaaga 300
 aaaacttgag ttgaaagttt ctatccctag aaaactctat gatgaacggg aaccaactat 360
 taaaattgaa attaaagatc atgagtttta tgctttgtgt gatttgggtg ctagtgtctc 420
 tactat 426

<210> 8686
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-E6

 <400> 8686

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 accatgtact cctacatggc ctctcacatc tacctttacc aaattgagtt cacacgctta 180
 gccctcaata gtagaacatg ttcacacgcc tccaattcat ccccgatgaa tcagacctaa 240
 ctcaactcta agcagtagca ggcacgaca acaagcatga atgagtaggc acatcagggc 300
 tcaaacaact cctgctcatg ctagtgggtt tcatctatct actgtggcaa tgacagatca 360
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<210> 8687
 <211> 442
 <212> DNA

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catcaacgtg tgtgcgctag acgggcacac attctaatta aaagaagtgt gcgcgatggc 240
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accatatggt gcaaacgcca cgtaggcggc cgagaaagcg tgcccatggt acgccttccg 360
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<210> 8690

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F1

<400> 8690

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accaggggct attttatagc cccatcatca aactcctatg gataagtgag agccgtaaag 360
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<210> 8691

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F10

<400> 8691

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<210> 8692
<211> 393
<212> DNA
<213> Triticum aestivum
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<210> 8693
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-F2
<400> 8693

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tgtcactgat gacctgttga tgaggagggc gtattttagg aagcagcagc ttgacaacaa 180

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<210> 8694
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F4

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ataaccccaa aagaaccaga tttcgcaaac aacatagagg aagaatgaaa ggaaaatcct 420
g 421

<210> 8695
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F6

<400> 8695

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caacaacgat cggttactat cggttgagcc taagtttttg cttcatcaca tgagttgtgc 240
tatecttgca ttgttactct attttgcctt gcatcatctt tgcataagat accatcatgt 300

caaattcttt aatgaaatag actctttgca taggttcaaa actatttaac ctcccttt 358

<210> 8696

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F8

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<210> 8697

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-G1

<400> 8697

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aaaaacacaa ccaaaaaaga ggctaaataa tttatatatt aggaaacagg agcaaaaatc 180

aaggaataaa aataaatttt ggttgccctc aaacaagcgc tatcgtttaa agccgctagc 240

taggcataaa agcgaggata gatctaggta ttgccatctt tggtaagcaa tccataagtg 300

gctctcatga tagtttaata tggcaatttt atttcatttc caggaaagtg ttccacaccc 360

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<210> 8698

<211> 353

<212> DNA

<213> *Triticum aestivum*

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acgaattaca agacatggaa agataagaca acgaaaacat tgttacaaag cagacatata 120

gtttcaaata aattaactat tgaagctaata gtgccccaaaa gaatctagga gtataactac 180

ctacttcaaa ggcataattta tacagttctt ctacatttta tactatcccc tgcgaaatgca 240

tgggttgacg actagtgaga gtaactcttc agctcataca ttgggtcactt ccccttcatg 300

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<210> 8699

<211> 446

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-051-Q1-E1-G6

<400> 8699

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cccaggaacc cgtagaatct cgagtggacc acatcagcga tctctcggac tccgtccttg 120

gggagatcat ctgcgttctc cccaccaagg attgctgccg caccacaagtc ctctcaattc 180

ggtggcgccc tctatggcgc gctgtgcccc ttaatctcga ctgtcgtcat ctagctctct 240

tcaatgattt tgaaatcccc agagccatca tctcctccca ccagggtccc gttcaaagcc 300

tctacatccc gccttctacc tgagcaagca tagcatgccc tgcattggtg acgcctggct 360

ggaatcccct gaattcacag aactacagct gcttgagttc tactattccc ctggaaatca 420

cataccacat accgaatgcc atgaac 446

<210> 8700

<211> 433

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-051-Q1-E1-G8

<400> 8700

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 taagtctaag gagaagcacg ctaagcaact agaacatcct aatgccggtg aaaaatcccc 120
 ttcccgaaaa caagtaaagc gctctggaat aactctaagt ctaatgagaa gcacgctaac 180
 caactagaac atcctaatgc cgggtgaacaa cccctttttc gaaaacacat taccacaact 240
 ctggaatatc actaagtcta aggagaagca tgctaattag ctagaatatc gtaatgccgg 300
 tgaacaatcc catTTTTCAA atcaaagaac atcagctctt gaatatctct aagtctaagg 360
 agaagcacgc taaccaacta gaacatccta aaccgggtga acaatcccct tttctaaaac 420
 actttcacac cag 433

<210> 8701
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H12

<400> 8701

ttcccgggcc gacggggacg ctggtgcccc tgtcggagca gcagctggtg gactgcgaca 60
 agtacgacgg tggctgcaac cgaggctact accacagggc cttccagtgg atcatggaga 120
 acggcggcct caccacggcg gcgctctacc catacaaggc ggtgagaggc gtctgcttcc 180
 gcgccaagcc cgccgtcacc atcaccgggc acgcggcggt cgccaagaac gaattggccc 240
 tccaaagcgc cgtcgcgagg cagcccatcg gcgtggccat cgagggtccc agcagcatgc 300
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<210> 8702
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H2

<400> 8702

ctgtttttca attagataat gtgaagtaac tttcagtata ggaaatctca ttttccatat 60
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 gtgattttgt ggcctttgac gaactcttcc ttgttcgttt aaatgatacc tagtaccacg 180

gtatggagca agaaactgtg gtgtgtttgc ataatcagca tccacgagat aaaatttacc 240
atcggaact tcaaaaccat ggttaagtgc atcatctaga actcttgc atgaagctga 300
tccctcccaa ccaggatgta tatgcacaaa cttcaagtca aaatctcagg caaccataac 360
attctgcgag attgtttgcc tcctatttct gtatggttct tgctcatcca atggaagct 419

<210> 8703
<211> 446
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-051-Q1-E1-H3
<400> 8703

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atcatcatca ttagcttccc cactaattgg tgtangaatc actggaactg atttctgtga 120
tgaactactt tccaataagg gagaagggtgc agttacctca tcaagttcta ctttctccc 180
actcacttct ttcgagagaa actccttctc tagaaaggat ccattcttag caacaaatat 240
tttgccttcg gatctgtgat agaagggtgta cccaacaatt tcctttgggt atcctatgaa 300
gacgcacttc tccgatttgg gttcgagcat atcaggttga agctttttca cataagcatg 360
gaagcccaa actttaagaa acgagaactt tggtttcttg ccaaaccaca gttcatatag 420
ggtttaatgc gttttctgag actaac 446

<210> 8704
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-H8
<400> 8704

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gggtcgacct ccgcgacga ggtgcagcgc atgatggcgg agatcgacac cgacggtgac 120
ggcttcatcg acttcagcga gttcatctcc ttctgcaacg ccaaccccg gctcatgaag 180
gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgat ccaggagcgg 240
atccatctac gtacggcttc gtatatcaat ttcatgcaac tacctactcc ggtcccgatc 300

cagcctcagc ttcacctgag gccggcccta attttgtttg atcatttttt ttgctaccag 360

tagtaactag tgatgatcac tgttccatca tttatttatt ttatatcatc acaagtttct 420

<210> 8705

<211> 106

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H9

<400> 8705

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tggctactgc ggctcactga gggtagacca ctggctctgca gttttc 106

<210> 8706

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A10

<400> 8706

cggctctagag attcccgggc cgacggggag ctaattccgg tacatgggct ccctcacggc 60

gccaccgtgc gccgagaacg tctactggaa cgtcctgggc aaggtgaggc agatgaccaa 120

ggagcagatc gacctcgtca ccgcgccgct gccggccgcc gccaaagcaga acgcccggcc 180

ggtgcagccg ctcaacggca gggtcgtcac cttctacaac ccgcccaaca gcaccatctc 240

cttcgacatg tgatcttacc ccattagat ggagtgctaa ttaacctaga aattaacgtg 300

ttactgtatt cgtgtatcac catcagcgta ctgaccagct aatctcgttt ttgccttgtc 360

attatctctt cgctgcttta ctcagatgaa acattgtgac 400

<210> 8707

<211> 398

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-052-Q1-E1-A11

<400> 8707

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ggaggctttg cagcacgcat gatcttgcca gttctatcgg tggctcttct cgtccttgtc 120
agcgttggga tctatggatg ggcataatag ctctctttat ggtgggattt aatgtgtcac 180
atcccccca catcggctgt gatcattgta catactgtgt cttgctgcct gcgtttaaga 240
cggttgtaag acagcgaagt gtttgttccc cttcgggcgg gggactgtga aatgaagaag 300
tgaggtaaca aatgagaagc gggatgaagc aaggagcaac tgttgctgta natgcctgtg 360
acttagtaca tgctagtttt tgttttcctg tcatcaca 398

<210> 8708
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A12

<400> 8708

ggtctagggt tcccgggccg acggaggata cacaagcgtc taagcttggg gatgccccag 60
aaggcatccc ctctttcttc aacaagtatc ggtatctttt cggattcgtt tcgttcatgc 120
gatatgtgca atcttgagc atcttttgca tttagttttc atttttcttt tatgcaccat 180
gctggcatga gatagtcctt ggttgattta tagaatgctc atttcacttc acttatatca 240
tttgaagttt ggatttcctg tttctcttta catagaaaac cgccatttgt agaatgttct 300
tttgcttcac ttatatattgt tagagcacgg gcatatcttt tgtagaaaga ataaaactct 360
cttgcttcgc ttatatctat ttagagagat gacaggaagt ggtcattcac atgattagtc 420
ataaaatcct aacataaac 439

<210> 8709
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A3

<400> 8709

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ttctgcttgt gccttacctt ctctcttgta tgaaaactaa tttcagatga atctccttgc 120

tcaaaggatc atatgatctc aaaacaataa tgggctctgc attgctcttg tcaatacctc 180
tctccctttt gccttgtgac gctgtactta attaattact atttaattat gtatcatcag 240
tctgcacctg cgcttcatta acctttgttt ctccaatat tatttgatct atatttactc 300
tttgcaaaat gtacaataat ggcaacgctt ataaagaatt ttctttgggg aatttattga 360
attatccttc catcaacaat gagaagggt t 391

<210> 8710
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A5

<400> 8710

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gcacgagaga aaccagatac accgctccag gagataagat cgtgggttct tatctggatg 120
ttcatgggct tttattatgg catttttaaa tcctttttaa tgtgtataca agctgagatt 180
ggagggggag gggggcaact atgcttgtag gtgtgattta tctctctttg tgcgcaccga 240
ttcgaagtat cagtcgatgg ttggggggct tggccctgc ttgtccccc ttgctccgcc 300
actgggaaga cccatgtgtc acgataattt tgtagatga tgtacaactc aatcgtctat 360
tcaccagagg tgtatcaaata agttgtatt tgtctttgtt ctcttgacg ggtaacacc 419

<210> 8711
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A8

<400> 8711

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ttttcggtag caaacagttg tgttttgaac tagagaggat acaagatgct ctttgtgggt 120
ctccaagta caagagtgc aatggagagt tccttggtat tacttctgat cttgtgagc 180
attggaagct tcaacaaact gcaatgtcag gattcctgat agagattggg tggtaataa 240
agaagccttc tccagatgaa tttaaaaatt tactgagtaa aacaaatggt aagagatgga 300

tatgtgtgtt ggagttcttg atacagaaca attttatcaa tgttcttgaa atgattgtga 360
aatcatcgga caacatcata ggctctgaga ttctttctaa cctggaaagt gggcggttgg 420
aacatcatgt cacagc 436

<210> 8712
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A9

<400> 8712

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ggaaacataa ccatctttga ttaacgagct agtcaagtag aggcatacta gtgacactct 120
gtttgtctat gtattcacac atgtattatg tttccggta atacaattct agcatgaata 180
ataaacattt atcatgatat aaggaaataa ataataactt tattattgcc tctagggcac 240
atttccttca gcgcgtagta atttgtttcg ataactaata gatttttgta ataagtatgt 300
gagttcttta tgactaatgt tgagtccatg gattatacgc actctcacgc ttccaccttt 360
gctagcctct ctagtaccgt gcaactttcg ccgggtacat aaacccaaca tttatc 416

<210> 8713
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B1

<400> 8713

atggagaatg tcagtgtgat atgtcaagta gtggacagat aagccaacca ctggatgtgg 60
ttttgagggg tttttgcagt ggggtttgta ggggtctatg ccgcgctggg tttgggattt 120
gaaataaaaac gaagggagat gtgccacgct cttaagg 157

<210> 8714
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B10

<400> 8714

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agaccctcac cggcaagacc atcaccttgg aggtggagtc ctccggacacc atcgacaacg 120
tgaaggcaaa gatccaggac aaggagggca tccctccgga ccagcagcgc ctcatcttcg 180
ctggcaagca gcttgaggat ggccgcaccc tggctgacta caacatccag aaggagtcca 240
ccctccacct ggtgctcagg cttcgtggag gcatgcagat ttttgtcaag acgctcaccg 300
gcaagaccat caccctggag gtggagtcct cggacaccat cgacaatgtg aaggccaaga 360
tccaggataa ggagggcatt cccccggacc agcagcg 397

<210> 8715

<211> 230

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B3

<400> 8715

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tcgggtttgt gcacatcttc cggtagagtt cagttcgctt cccgtgttaa aactagtgat 120
tgtcatggag attactgttt aactgagata ccgatgttgc catggtggat agaacaataa 180
tttatgcggc tgagaaataa tggcgttact ctgactgttt ttcacccact 230

<210> 8716

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B7

<400> 8716

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gttttcagcc ttgttttggg caccgaggag cctggaatat cttacgtgct gtgctgctcg 120
gcgtttttgc acatcttccg gaagagttca gttcgcttcc cttgttaaca ctagtgattg 180
tcgtggagat gactgtttta ctgaaatacc gatgctgcga tgggtggatag aacaataatt 240
tatgcggatg agaaatattg gcgctactgt gactgtgtat caccactta tcttgtgatt 300

tgcgagccta tttggcaatt ggaaaaaaaa aagcaagcaa atcaccgaac catccgaacg 360
 tcacgaacg 369

<210> 8717
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B8

<400> 8717

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 aaagtgaacc cgacgcacta ccgggagcca aggttttaca ccaagggtgt taaggaatgc 180
 cactcctatg accaagatgg gaattccttt gagctttctc tggtaacttc caagtgcatt 240
 ggagcttatg tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc 300
 aagtgcacag aagacaaagg ctttcagaga ttcctggaca atgtgcagta caaatccact 360
 ggaatcctgc gttatgagcg cgtgtttggg gagggttatg tcagcaccgg tggattcgag 420
 aacacaaaag aatttgtgga ca 442

<210> 8718
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C1

<400> 8718

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 actatgagaa gtttgatact tgataattgt tttgagatat gaagatgggt atatttgagt 180
 catgctagtt gagtagtttt gaatttgaga aatacttggt cttaaagtttc tgattcccg 240
 agcatgcaca tatggtgaac cgttatgtga tgaagtcgta gcatgattta tttattgatt 300
 gtcttcctta tgagtggcgg tcggggacga gcgatggtct tttcctacca atctatcccc 360
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<210> 8719
 <211> 302
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-C11

 <400> 8719

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 gagtgtttgtg agcctcgcca tgaccgtcta caacatccgg cagcgccctg tctttgctta 120
 gctgcggatt attgagcatc ttggaacctc aagagtggcg acctgaagaa gggtcagact 180
 tgcccttgcc tatggcagtt taatgttgct attatctgtc ttctgttgga tgtgttatga 240
 gtatgttggt ggttaccaag gttctatatc taaaanaaaa aaaaaaataa aaataaataa 300
 aa 302

<210> 8720
 <211> 210
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-C2

 <400> 8720

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 tagctttgag catgaacatt gtatctggat ctcgtttaat tcgagatggc tactcattta 180
 aatccgagaa ataagggttg ttcaattata 210

<210> 8721
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-C3

 <400> 8721

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 ttgaagttct catgataaac tcccaaagcg gaccaggttt attattcccc aaggaggat 120

gggagaacga tgaaacggtt gaacaagcag ctgctcgaga agctatagaa gaagctggag 180
 ttcaaggaga tatagtgcaa tttctaggtt tctacgattt caagagcaag acgcatcagg 240
 acgctgtgctg ccccgagggc atgtgcagag cggcagtgtt tgcgctgcac gtgaaggagg 300
 agctggcctc atggcccag cagagcacc gccggaggac ctggctgacg gtccccgaag 360
 ccacgtcaca atgtcggtag c 381

<210> 8722
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C4

<400> 8722

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 gcaagtcgga ggggctccag ggctacatcc cctccttcga cctcctagtc agcgacaccg 120
 acgccttctt caccgccgtc gtgcctcca ccgccaacac ggacctcccc cgcttcatcc 180
 tcggcgagtc catgggcggc gccgtggcgc tgtcctcca ccggatgcgc ccggcgtact 240
 ggaccggcgc cgtcctcgtc gccccatgt gcaagatcgc tgatgagatg cggccgcac 300
 cggtggtggt gagcgtcctc aagctgatga ccaacatcat cccacgtgg aagatcgtgc 360
 cgaccaccga cgtcatcgac gccgcctaca ggatgcaaga gaagcgcgac gagattatgg 420
 aacaacccc 429

<210> 8723
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C7

<400> 8723

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaagaa aaaaaaaat 180
 aaaaagaata aaaaggaaaa aaaaagaaa aaagcggggt ttctaaaagt ttaaaaactt 240

catcatatga tgacgggagt ttaaaatttt gaaagtttg accaataatt tttttgaagg 300
 gtcgtttttt aaaaaccggt aataggggaa aaacctgttg gttccccaat aaacccgctt 360
 gttggaaaat taacttttat caaaagggtt ataattgaaa a 401

<210> 8724
 <211> 278
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-C9
 <400> 8724

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 tgggtatttgc tgtgatcata aagttgggtcc tagaatgatg agcatccaag ttgcgtataa 120
 taaaaactat cctagaaagt gaattggatg ctatgatcaa tttgatgctt gataattggt 180
 ttgagatatg gaggtagtaa tattaaagtc atgctaattg ggtgattatg aacttaaaga 240
 atgcctgtgt tgaaatttgt gaatcccgta acatgcac 278

<210> 8725
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-D1
 <400> 8725

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 caaaatgcac tgctataatg gccgtttctc aggcctgttg ttgttggcga aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaacaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aagaaaagaa aaaaaaaaaa acaaaaaaaaaa aaaaaaaagg ggccccccaa 240
 aaggatcaaa cctaactaac ccgtgaatga aacttaaaac ccctccaaaa gggccaccaa 300
 aattaaatta aagggcgtcc ttttaaaaaa ttcgtaacgg gaaaaacccg gggtttacca 360
 aattaaaccc ctttgaagaa aatccc 386

<210> 8726
 <211> 416

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-D2
 <400> 8726
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 ccgggcccgt gtccaggctg aacatggccc gtaggtcggg gcgtgttttt ttaaaataat 120
 tacgcgtaga agaaaaataa aaagaaatac taaacggact ccaaaaattc cgaaataaat 180
 tttcacgggc ttctaaaatc aagccgcaca aggtgaacat ttatttggca cctaaatgca 240
 attttgaaaa acacacattt ttctaaatt caaataaaac accaaaaaaa ctccgaaaca 300
 aaatcttatt tgattttatt attaaatcct caatatttct ttattttggg aaagtcattt 360
 tattccact ctcatatttt tgcaatagaa ataattgatg ataaaataaa taaat 416

<210> 8727
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-D4
 <400> 8727
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 aaaggtgaac atggagctcc ataagtacat gaacagcgcg ttccagaaca tcaaggccat 180
 gtgcaagtct caagattgca accttaggat gggagcattc accttgggag tgaaccgggt 240
 tgctcgcgcc accatcttga ggggctggga ggcatgagga attccagatt ccttatcgaa 300
 taatccatgc ccgacaccgt ggtggatgac agttcttata tccaccatca ttgatttggg 360
 aaattcatca taagttgccg gcatgccagg agtccaattg agataatttt cggtgtacat 420
 gac 423

<210> 8728
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-E1

<400> 8728

ggtcgacggc ctgaataaaa aaggaacagt tcgagtagta tctacaaata ttaccgaaaa 60
cattgtgaaa atactttctac gagagggttt tattgaaagt gttcggaaac atcaggaacg 120
taacagatat ttcttggttt caactttgcg acatcaaaaag agaaagacta gaaaaggaat 180
atatagaaca agaacctttt taaagcgtat cagccgaccc ggcttacgaa tttataccaa 240
ctatcaagga attcctaaag ttttgggtgg aatgggaatt gctattcttt ctacttctcg 300
aggaataatg acagatcgag aagctcgact aaacagaatt gggggagaag tcttatgtta 360
tatatggtaa tcgccccgcc tatagtgctc gaattctatc tcgccccttc tattttttaa 420
ataaaaatag aaaaata 437

<210> 8729

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-E12

<400> 8729

ggcttaggac ccccggtcg acgggcatcc cttcccca gtacaagacc cggggcttct 60
ggacctaaaa ggtataattc tcaacaaaaa actgcacaga cattagatgc tctgtttcta 120
gtagcaagtt tcagttgagc gtaagcatac caattactgc tgtatttgtc tacttgctgg 180
gaccatcttg ttaccataga tgttttaact caaggcagat catgcagggg tatttatgta 240
tttttatttt ctttagaggt ttaccacat gcatacatga tgactggcat catgaactct 300
atgagccaaa ctgcttaatt gcaaccaatc cttgggcact tagccaaagg attgtggtcc 360
aatctatcgg tggtttaatc ctagctacac tatcagaaaa atttccctac ttctataaca 420
aaa 423

<210> 8730

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-E4

<400> 8730

cgggtcgaga ttcacgggtc gacggcgaag tacaacgacc caacatatat ggtccgggcg 60
 tgtcgtgcaa atgcatctga tgccatcttg tgactgtgc ttggacaaaa tgctgtccat 120
 ggagcatttg ccgggttcag cggcatcaca tcaggtatth gcaacacaca ttatgccttc 180
 ctcccgatca cagaagtcac cacaacaccg aagcatgtga acccaaatag caggatgtgg 240
 caccgatgtc tcacgtccac tggccaaccg gacttccact gactcgcgtt gagcgtttac 300
 ttctctgcac aggctaaact cgtaatgaat taacatatth ttgcttacc acagactagt 360
 cacagctgaa agattagtca cgggtgcaagc taccaacatg ttaacaataa tgtaatactg 420
 agaatgaact cgatcgactt gtttc 445

<210> 8731
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-E9
 <400> 8731

ttcccggggc gacggggggg ggaaaaataa tgatgacccc tgagtccgcy aaaccaagg 60
 gaaaaaaagg ctaggtggcg aatggtaaaa ccaatgttgg gcattgctgg aagagcttta 120
 ctttaaggcga actgtcaagg ggttcccatt atagcccaac cgcgtaagca acgcaaaatc 180
 cgggaacata acaccgatat gacggaaaact agggcggcaa gagtggaaca aaacaccagg 240
 cataaggccg agccttccac cctttaccaa ttatatagat gcattaatta aataagatat 300
 atagtgatat cccaacaagt aaacatgttc caacaaggaa caacatctcc atgttccaac 360
 aaggaaacaaa cttcaatctt cacctacaac taacaacgc 399

<210> 8732
 <211> 319
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-F1
 <400> 8732

cacggcgtgt gagtatcatc cctaccttct ccatttagcg cgcgaacgag acaatttgtg 60
 gccatccgcy tgattggaat ttcgatttgt aggttttcaa tactactata tatgctacaa 120

ataacatttg taggctttca ataatatattg tcttgcaacg gggaaaaatc acttacaatg 180
gacaaaagag tcaggggtac cagatctttc aaagtgtgag atgcggtgac gcacagaaga 240
agctcgctc aattcgacg taatcccact tcactacgct gtcaaaatgg cccctccata 300
caagtaaaaa cccgtcggt 319

<210> 8733
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F10

<400> 8733

ccgggcccac ggaggccggg aaagaaatga ggaagggcac caagacaacc accgcggtc 60
gggggggcca gaagacgaag aatccccagg agatgatcac gacggtgatg ctgtacacag 120
tcatcatgta gaagatgcag gacatgatga tgatgctggc ggagcagacg acgctggacc 180
atcgatgggc tgggtgcagg accctcatat tcaatagctg cttctcaagc agacggataa 240
cgcaagagct gccgcccag agaaagccaa gatggatcaa cttgagttag acgcggttac 300
tccattgtat gaaggatgca ggcccaggga taccgcctg aaagtaacgc tcatggctct 360
ggagatgaag gtaaaacaca aaatgaccga cgcgtg 396

<210> 8734
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F11

<400> 8734

ccgggcccac ggagctgct actcatcgt ccttctctc ccgctccgct cctttctctc 60
cgctgcgtcc ctttcccca gatccgacgc ccttccggct tgcgttgcc tcgcccgcgt 120
gacaaagttg ggagaagggg gttggccgct gtcttgcggt tgggcccagg cagcggtggg 180
ctggacgccg cttctgctg tcttcgagcg atgggagagg gttagggtct gtcgtttgcc 240
gttcgattgg tgactgttgc gggttggcag cgcgccgtgt agctgcgaga caacttcctt 300
gttgatctgc cgtcctgctg cagtgttata tactgtcgaa ttccaaaaac gaggtctgcc 360

acacgcgcat atcctcatct ggcgtaaagg agacaaagat 400

<210> 8735
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F12

<400> 8735

cccgggccga cggaatccta aagtagttga caacataaac tgaattgatt tgttcacacc 60
catcactgta gagtaacttg tgttgggtga tatacacaca tgttgtcaaa accaatttta 120
cccccaaacc gctgcttggt cagtactgaa aaaaaaattc aaaggtggga aaatggcata 180
gtgtttttatt tttaacaatt ttcttctctt aaaatccaac acttggagtt cgaacacaat 240
ctaagtaccg agaacctttt catatctcct cataagtaca acaaaacatc gatgacttaa 300
tttccaaata ttacaaagta aatacccgta acttgaaatg aacatgaaac actgtcatag 360
atcgctcgac gggcccagac catcagcatc cctaataaac tggataagaa taaccaaa 418

<210> 8736
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F2

<400> 8736

cggcgtccaa tcatgtgcat tatttgggga attggaccga gatacatcat agttgcttca 60
caactccata tttggtccag aatcaagatc aagatgatgc actcacatag agtaaccact 120
tgagctcaaa ttcggcaagg cagcatgttt tggacatata aagatgctgt aaaaatttcg 180
taccaaatgg acttggcaaa atggaacttg cttcacaac atcctctttg tccagaaact 240
tgcaataatt tttggggaga aaatggcttg attaaatgtt cccaaatttg gtggagagat 300
gggatattgg taggagcatg atctagtaat ttttcaaaaa taatgaagca atataaataa 360
cacttgcttc acaacctgaa aatattaaca gaatataaga tatgaaactg tgctcacata 420
gatga 425

<210> 8737
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F3

<400> 8737

ccggtcctag attcacgggt ccacggcgac ggaagagaag cagccgacgt ctccgtcgcc 60
 gtcgtctcgt tcgtcccca atcttcaccg agcttccgct ccccgagca acgaggagga 120
 aggaatggac aagtatcaca gcaacacccg ctttgcaccc ctgagagacg ctccatttgc 180
 tctccgtggt gccttttgta cctccaactc gtctttcaac aacatggatg gccttagaca 240
 ctctcaagc attgggcaag caaggagcta cacatcttct cccttaggag ctctgcgaca 300
 gaagattcct ccattctgaa accgatccct acatacaagt cgtcccttgc ctgctcctgt 360
 tgcgaaccgc ccaactgtct cccatcttcc tctgaagaag ccacagctga gcgctacgtt 420
 ctccatctca caccgtatat ttggcgt 447

<210> 8738
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F4

<400> 8738

ggtcgacggc ggatgtgaat tttgatttaa ttagtgtttg tgccaagtag gacctatagg 60
 ataacctacg atgatagttg atttgattct gctgaaaaac agaaactttg catgcacgaa 120
 tataattatg ataaattaca ggaacatgct tttgcgttga ttctttttga tactgatcaa 180
 taaacaaatt ttcaggactt actagtttgg tagaattttt agagttccag aagtttgctg 240
 tagttacaga ttgctacaga ctgttctatt tttgacagat tctgtttttc gtgtgttgtt 300
 tgcttatttt gatgaatcta tggctagtaa attagtttat aaaccataga gaagttggaa 360
 tacagtaggt ttaacaccaa tataaacaaa taatgagttc attacagtac cttgaagtag 420
 tcctttgttt t 431

<210> 8739
 <211> 418

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-F6

 <400> 8739

 cgggcgaaca tccggtgccc cttagcgatc agctgaagca gctgggtcgag ctccacaagg 60
 tggccgaaca ggccatgaag ggccttatag tttggctgtg gcccaaagag gccatgcctg 120
 ggagctactt cggcctgggtg cggcgggtgg tggatgcgtg tccctggggtt gaagtcacat 180
 agcactccgc ctgcattgaa ggtgcccac cggcccttgc ccgtgctaaa gtgcactggg 240
 gcaggatgga cgctgagaag cttgtgacgg acgcgccacc accgggcaag gagtatcgca 300
 gcccgagatg tattataagg gtgtcctgaa gggcgccgc attattgcgg gtgagtgtc 360
 caaggatgta atatttgagt agactcgcat tttgttatcc tgtgcgctga aaactttg 418

<210> 8740
 <211> 434
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-G1

 <400> 8740

ggggtccacgg cgagacttat cgccataggcg gcgtaggtgg gctcgagtgg gccgaaggcc 60
 aaggggtaag gggctgctct tttcttttcc tttgattttt tactttttat ttaattttct 120
 tttctatttt cgtttagttt cctgttttat ttaggttctg ctatcanatg aattttgttg 180
 accatgtaaa tttgcaaata acccagcac tatattttgg ggctgcacaa aatgcttccg 240
 ggcaattgga gttaatatata attatgattg tatttgaaag ggcaaaaaaa ggtgtcgttg 300
 gtccattgtt taaaatccat ggggtgtttt aaacatctcc aaaaatattt cttaatgaat 360
 gagaattatg tagtgaatat ttccaaccta aggaacattt ttaatttaca gtttttataa 420
 attctaattt gact 434

<210> 8741
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G10

<400> 8741

ccgggtcgac gggaagtaca acaacttcgg cgatggaagt caagattatg gggagattat 60
taggataatc atgactttga tgcattggata agctagctac atgcgtgcgc gagttgggta 120
gtctatgcat ggcgtgagtt agctgggttaa gttgtagct acgtgcatgc atcgcatgga 180
tatgggtgca tgtggttgag atattctagg aggtgagtgt ccgtgtgtgt gcatggatag 240
agtttgtag actccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaacaaaagg aaaaaaata 360
caacaaagga aaaaaaaagg caagaacaaa aaaaaaaaaa ggggccgcc 409

<210> 8742

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G2

<400> 8742

cggctggccg ggacatgtat ggatactgta cttggaattc ttgcgagctg tgactgatgt 60
gctgcaaata gaatgaccgg ccatgaatta taaggctgag cgatgtgcgg ttgtctctc 120
cgtttcttag ttctgaatca gcaacgcgcg tttgctgac cgtaagctgc accggagttt 180
gtatccacgc gttttttatt tcttcataga aacgtttgta tccacgcgca ggcggtgacc 240
cacacggatt ttctccaat gctccagact acacggaatg ggccaccaac ttccagaaat 300
gcatattggg ccaggcctaa tgaagcgaac caacaggctt tatttgggcc gggtcagcgt 360
cttgaaagtt ttcaagtcct caaagaaagt tcttcatcga ttaaaaaaaa gatcttcaag 420
ggccaaccta tattaat 437

<210> 8743

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G3

<400> 8743

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agcatgataa aattctgatt tttttacaca agattgatat acaaatttcc cagtttgtac 120
taattttttca caatttttgg agttatagaa gtatatgaaa tttccagatt actacaaact 180
gttctgtttt tgaaaaattc tgttttcctt gtgttggttg cttattttga tgaatctatg 240
ggtagtatcg gggggtatga accatgaaga agttggaata tagcatatat aacatcaata 300
taaatttata atgagttcac aacagtacct aaagtggatga tttgttttat tataactaatg 360
gagcttatga gttttctatt gagttttgtg ttgtgaagtt ttgaagtttt gggtaaagtt 420
ttgatggagc acgaaataag gagtggcaag agcctaagct tggggg 465

<210> 8744
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-052-Q1-E1-G5
<400> 8744

atgcccggtt cgacgggtta tgaggatcgc attgtgaact tgtcatcagt tgcccacctc 60
catacatatc caaaggggat tctgtttgat cagctcaatg acaagaaaat atacaatgat 120
aaaatggcct atggacaatc taagcttgca aacatactgc acgcgaaaga gctctccagg 180
cggctcaagg aggaaggagc taacatcaca gtttaattgcg ttcattcctgg attgatcatg 240
accaatttga tgaggcattc ctttgctctc atgaaggcaa ttcaagttgt cacctacttg 300
ttctggaaga atgtaccca gggagcggca actacttgct acgtagggtt caaccctcag 360
ctgaagggtg tgacaggcaa atactttgcc gactgcaacg aggagaagac gagcaagcat 420
gcgaagagcg 430

<210> 8745
<211> 444
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-052-Q1-E1-G6
<400> 8745

ccgggtcgac ggggaatgat agttgctttg gaagaaaata atgatatgca tgaatctata 60

gataattatg attccgatga tttgattgaa atatcccttg atgaacatga tgcttgctat 120
tcttatggcc atgataccaa tatttatgga gatgaatttg ctatagtttc tgatgttaaa 180
catgagattg ttgccattgc acccatactt gatagttcct tgaatcgaaa gcatgattgc 240
gatgaagtta ttataaatta tattaatgtc aattgtgtta atgatatgca aaaccctaag 300
cttggggatg ctagttttgc tatctctact atttgttgca atgatcatga ttgggatgat 360
tcttcttatg atcttgaaaa tttatttaag ccccatgatg aacatgagat tgataataat 420
gtttgtaata atatttaaaa tggg 444

<210> 8746
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G8

<400> 8746

gggtcgacgg ggatggctat gattaccaac ttgtaacgcc cacgacgagg ctatatctcc 60
cacgtgtcga ggcacgactt agaggcataa ccgcatagtg gttttgtcgc aagaaggggc 120
atcttcacac aatcccatgt aatgaacaag aatgggataa agagttggct tacaatcgcc 180
acttcacaca atacatgaat ataattcata catcatccga aatacaaaca tatagaccga 240
ctacgggtcaa aatccagatg aaaataagac aaccccaaat gcttgatccc cgattgtccc 300
aactgggctc cactactgat catcaggaaa agacacatag taacgaccac gttcctcgtc 360
gaacgccac ttgagatcga ccccatcgtc ggcaccggca tcgtcggcac ctgcaactgt 420
tttggtagaa tctgtgag 438

<210> 8747
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H1

<400> 8747

cacggcactt caatataaaa aaaaaaaaaa aaaaaaaaaa aacataaaaa aaaaaatatt 60
aaaagcaaac aagtatgaaa aaaatacaaa aagtcccaac cactaaaaag ataaaaaagt 120

caaaaaaaaa accggccgcc caaaagggttc aacactaatt tacccttaaa tgcaacgtaa 180
 aaccctcca aaagtgccac caaatttcat ttaacgggcc ttctttttaa aaatccttaa 240
 tgggaaaaaac cctggcttaa ccaacttaaa tccccttgaa gaaaatcccc ttttcacaaa 300
 cgggggtaat atcaaaaagg cccgcaccta tcccccttcc aaaaatttgc ccaccctgaa 360
 tggcaaattgg aacccccct taagcggccc ataaacccg gggggtttgg t 411

<210> 8748
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-H10
 <400> 8748

ccgggccgac ggacaacaca ggtcgcgtaa tcctggacct gaaacccggc gagtaccgtg 60
 agaagatctt cctcaatctc agcaagccct acgtcacttt caagtccgat cccaagaacc 120
 cggccatcat cgcttgagc gacaccgctg cgacgctagg gaaagacggg aagcccggtg 180
 gcacgggtggg gagcaccact tgcgccatcg agtccgacta ctctgtggcg tacggcggtg 240
 tgttcaagaa cgacgcgcca ctggccaagc cggggggcaa gggcgggcag gcggtggcgc 300
 tgcgtacgtt cggcaccaag caggccttct acaactgcac catcgacggc gggcaggaca 360
 cgctgtacga ccacaagggt ttgcactact tcaaggactg cgtgatt 407

<210> 8749
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-H11
 <400> 8749

ccgggtcgac gggacctcca tggcgcgcac cccttgctcc tatataagta gatccgtcta 60
 gtagcttttc cttgggtttt gttgagttaa aagttagcca gtgcaacttc gtgtacttcg 120
 tttgtgtcca acgaccagac caagaccgct tacggatccc caccattata aatacttcat 180
 atatattcgc aatatgcaga ttgctttatc atattcttgc tcgttcttcg attgcttgca 240
 ggaatagacc ttcgtggtca ggttgatcat gctccagcgt ggtcaataac ctctcggagt 300

tggtttagcg attgctaagg cgcaacatcg tgcacgtttg tagtcggatc gtcaaagtcg 360
tctccaccaa attgatagtt atcatctcat cgaaagattg ggacaacccc gcct 414

<210> 8750
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H12

<400> 8750

gggccgacgg gccggcatcc cctaacaagg agataaacca acaaactgtg gtgcctcagc 60
gaaagcaagc gaggtttgtg ctaccaaaga ggcgccaggt ggacgccgag gcgcggagcg 120
agctgcagga cctgatggac gcaagggagg ctggcatgtc cttcattctg ggtcaactccc 180
acatgaaggc caagagcggg tctagcttcg tgaagcggat cgtgataaac ttctttctacg 240
agttcttgag gaggaacagc cgtggcccggt cctatgccgc taacataccc catgcttcca 300
ccttggaggt aggaatggtc taccaagtct gatagtagca gctgtgtgaa agttttaagt 360
tagagagatc agatgaagtg ttgttt 386

<210> 8751
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H2

<400> 8751

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aaaatatatt taccaaaaagt acttttgttc acttacagct tagtggaggg ctgacccccct 120
tgcgggcact ggcggcaag gacgcctcc gaggcagggc ctcttgcca gggtttcttc 180
tctcgtttgg aaacctttgt ttccaagtct tcaggggtgg tccttttctt tccttcggaa 240
gaggggaattt cggattcttc tcctcgattt tcctccttcg tggagataact aattctctg 300
gtttggatga gtaatacgtg aggctcgctt ttggcttctt catctctcct tttatcttcc 360
cccgagggca cttgataagg tatgtactcc agcatcctgg ctagtat 407

<210> 8752

<211> 371
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H3

 <400> 8752

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 ggcgagggcc acaaggacga cgacggccac ggcagcagca gcagcgacag cgacagcgac 120
 tgagccagct ccggccgcgc tccggcagca gcgtgcagtg taggcgagat cgatgaacgc 180
 ttgggagaag tgtggcatatc atatatgttg cacggtttgg agcgtgtggt agcatatgta 240
 tgtaatgcgt gacatgtctc atggatcttg tgatgtataa taattagccg gctgcaactgc 300
 actgcacggg gcttgtaata ataacgttaa tgaatcatgt tggattgat gcaaaaaaaaa 360
 aaaaaaacac a 371

<210> 8753
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H4

 <400> 8753

 atgaacatct tcaccaaagg aggctctcct gctaggcccg ttctctgatg gagtcgcttg 60
 cctcgcaagc gaagccggct gccgtgctct ggctcgcccg ctctctccag gccgcgcgtc 120
 tccaccgcgt cgtctccttc tgcgtcagct ccagggtctc gtcgatcaga atcgctcagt 180
 gcttctctgct caacgggttc atcttctctgg ggagcttgct aaccttgaaa tcggtgggtca 240
 ttccaactct tctatggata ctgcccgagc aatgcgatca atcatgggga caacatctat 300
 gtgatcacac aacagctggt gccttgattt cgttcttacg ttcggggctt gtcgagattt 360
 tctatgtatt ttggttttat cccctctaca tcttcagctt tataat 406

<210> 8754
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H6

<400> 8754

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gcgttgagcc gccggggcta tattgagtca cgggtctgcc tgagccatct ctgttgcggt 120
gaacggatca tcgatcatcc gaacaaatca ggtgatatcc atctaagttt gttttattag 180
cacatattgc tttttgtcaa aaaacagttt atctttgcct tgggtctgcaa tattgttgat 240
gcaggacaat tggtcactac atcaacacga cgtggctaac ttacccatcc gcctgggctta 300
ccgtgtctgt gattgacttg cctgtctgca ctggcttaca acaccgtggc tgactcatct 360
gtctatatcg tctctgatgt tgccgtcgtc cttaacgttc gtcct 405

<210> 8755

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A1

<400> 8755

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<223> Clone ID: LIB104-053-Q1-E1-A10

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